

Author Index

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KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

* = Original Article	CP = Correspondence	KR = Key References
AN = Announcement	CT = Collective Review	PA = Presidential Address
CL = Classics in Thoracic Surgery	CV = Current Review	RE = Report
CR = Case Report	DI = Discussion	RV = Review of Recent Books
	ED = Editorial	
	HW = How to Do It	

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- Abd-Elfattah AS. *see* Yeh, Hanan, & others. 1990;49:932-8*
- Acar C, Deloche A, Tibi PR, Jebara V, Chachques JC, Fabiani JN, & Carpentier A. Operative findings after percutaneous mitral dilation. 1990;49:959-63*
- Acinapura AJ. *see* Gardner, Greene, & others. 1990;49:188-94,DI
- Acinapura AJ. *see* Woloszyn, Marini, & others. 1990;49:78-83*
- Adamson RM. *see* Reichman, Joyo, & others. 1990;49:101-5*
- Addonizio VP. *see* Kappa, Fisher, & others. 1990;49:714-23*
- Adzick NS. *see* Crombleholme, Adzick, & others. 1990;49:55-60*
- Agnew RF. *see* Browdie, Agnew, & others. 1990;49:1024-5,CP
- Ajlouni M. *see* Lewis, Ajlouni, & others. 1990;49:728-33*
- Akins CW. *see* Fiore, Naunheim, & others. 1990;49:202-9,DI
- Ala-Kulju K. *see* Heikkinen & Ala-Kulju. 1990;49:948-50*
- Ali MK. *see* Putnam, Lammermeier, & others. 1990;49:909-15*
- Ally JM. *see* Galbut, Traad, & others. 1990;49:195-201*
- Almassi GH & Haasler GB. Tetracycline pleurodesis for persistent air leak. Reply. 1990;49:167,CP
- Alpern M. *see* Lewis, Pearlberg, & others. 1990;49:591-6*
- Altorki NK, Skinner DB, Segalin A, Stephens JK, Ferguson MK, & Little AG. Indications for esophagectomy in nonmalignant Barrett's esophagus: a 10-year experience. 1990;49:724-7*
- Amarshi N. *see* Gelfand, Simmons, & others. 1990;49:435-9*
- Amendo MT. *see* LaMendola, Culliford, & others. 1990;49:1009-10,CR
- Amidi M, Ferson PF, Labuda MJ, & Melhem MS. Early manifestation of noncalcific aortic stenosis after porcine valve replacement. 1990;49:471-2,CR
- Anagnostopoulos CE. *see* Hartman, Mawulawde, & others. 1990;49:816-8,CR
- Anderson JE. *see* Kouchoukos, Wareing, & others. 1990;49:210-9,DI
- Angell WW. *see* Dreyfus, Serraf, & others. 1990;49:706-13,DI
- Angell WW. *see* David, Box, & others. 1990;49:701-5,DI
- Annecchino FP. *see* Abbruzzese, Napoleone, & others. 1990;49:111-4*
- Anstadt MP. *see* Hendry, Packer, & others. 1990;49:253-60*
- Antaki JF. *see* Kormos, Borovetz, & others. 1990;49:261-72*
- Antunes MJ. *see* Galloway, Colvin, & others. 1990;49:84-93,DI
- Aoki M. *see* Tanimoto, Matsuda, & others. 1990;49:479-80,CR
- Aoyama K. *see* Oizumi, Hoshi, & others. 1990;49:824-5,CR
- Arcilla RA. *see* DeLeon, Ilbawi, & others. 1990;49:429-34*
- Arens JF. *see* Kurusz, Conti, & Arens. 1990;49:511,CP
- Arensman RM. *see* Risher, Arensman, & Ochsner. 1990;49:500-5,CT
- Aretz HT. *see* Williamson, Ellis, & others. 1990;49:537-42*
- Armitage JM. *see* Dowling, Baladi, & others. 1990;49:118-22*
- Armitage JM. *see* Kormos, Borovetz, & others. 1990;49:261-72*
- Arom KV. *see* Galloway, Colvin, & others. 1990;49:84-93,DI
- Arom KV. *see* Kaiser, Naunheim, & others. 1990;49:903-8,DI
- Ashcroft T. *see* Kirk, Conacher, & others. 1990;49:147-9,CR
- Asou T. *see* Nakamura, Masuda, & others. 1990;49:973-8*
- Attar S. *see* Kappa, Fisher, & others. 1990;49:714-23,DI
- Attar S. *see* Kron, Flanagan, & others. 1990;49:920-6,DI
- Attar S. *see* Murphy, Sweeney, & others. 1990;49:612-8,DI
- Attar S. *see* Svensson, Patel, & others. 1990;49:528-36,DI
- Atwood G. *see* Browdie, Agnew, & others. 1990;49:1024-5,CP
- Bae Y. *see* Lewis, Ajlouni, & others. 1990;49:728-33*
- Baethge BA, Eggerstedt JM, & Olash FA Jr. Group F streptococcal empyema from aspiration of a grass inflorescence. 1990;49:319-20,CR
- Bahadir I & Diethrich EB. Importance of precordial electrocardiogram monitoring during coronary artery bypass grafting. 1990;49:169-70,CP
- Bailey SC & Head HD. Pleural chondrosarcoma. 1990;49:996-7,CR
- Baladi N. *see* Dowling, Baladi, & others. 1990;49:118-22*
- Barner HB. *see* Fiore, Naunheim, & others. 1990;49:202-9*
- Barner HB. *see* Kaiser, Naunheim, & others. 1990;49:903-8*
- Barner HB. *see* Craver. 1990;49:746-53,DI
- Barner HB. *see* Loop, Lytle, & others. 1990;49:179-87,DI
- Barner HB. *see* Menasche, Subayi, Piwnica. 1990;49:556-64,DI
- Barner HB. *see* Reichman, Joyo, & others. 1990;49:101-5,DI
- Barratt-Boyes BG. *see* Morris, Strickett, & Barratt-Boyes. 1990;49:802-5*
- Barriuso C. *see* Abad, Campo, & others. 1990;49:305-8,CR
- Barry MJ. *see* Edwards, Bellamy, & others. 1990;49:603-11*
- Barry MJ. *see* Edwards, Wind, & others. 1990;49:486-8,CR
- Basu S. *see* Woloszyn, Marini, & others. 1990;49:78-83*
- Batsford WP. *see* Elefteriades, Biblo, & others. 1990;49:94-100*
- Baumann FG. *see* Galloway, Colvin, & others. 1990;49:84-93*
- Baumgartner WA. *see* Gardner, Greene, & others. 1990;49:188-94*
- Bavaria JE, Furukawa S, Kreiner G, Gupta KB, Streicher J, & Edmunds LH Jr. Effect of circulatory assist devices on stunned myocardium. 1990;49:123-8*

- Bavaria JE. *see* Furukawa, Bavaria, & others. 1990;49:543-9*
- Bell P. *see* Kappa, Fisher, & others. 1990;49:714-23*
- Bellamy RF. *see* Edwards, Bellamy, & others. 1990;49:603-11*
- Bellamy RF. *see* Edwards, Wind, & others. 1990;49:486-8,CR
- Benckart DH. *see* Demmy, Park, & others. 1990;49:458-62*
- Bender HW Jr. *see* Edwards, Bellamy, & others. 1990;49:603-11,DI
- Benfield JR. *see* Read, Yoder, & Schaeffer. 1990;49:391-400,DI
- Benfield JR. *see* Wain, Wilson, & others. 1990;49:881-6,DI
- Benfield JR. *see* Williamson, Ellis, & others. 1990;49:537-42,DI
- Benson LN. *see* Caspi, Coles, & others. 1990;49:273-8*
- Bernstein RV. *see* Browdie, Agnew, & others. 1990;49:1024-5,CP
- Bernstein Z. *see* Canver, Lajos, & others. 1990;49:312-3,CR
- Berrisford RG & Sabanathan SS. Cryoanalgesia for postthoracotomy pain. 1990;49:509,CP
- Berrisford RG & Sabanathan SS. Direct access to the paravertebral space at thoracotomy. 1990;49:854,CP
- Beute GH. *see* Lewis, Pearlberg, & others. 1990;49:591-6*
- Biagi G, Gotti G, Di Bisceglie M, Lorenzini L, Toscano M, & Sforza V. Uncommon intrathoracic extrapulmonary tumor: primary hemangiopericytoma. 1990;49:998-9,CR
- Biblo LA. *see* Eleftheriades, Biblo, & others. 1990;49:94-100*
- Billingsley A. *see* Day, Laks, & others. 1990;49:1003-5,CR
- Binder TM. *see* Seitelberger, Zwölfer, & others. 1990;49:61-8*
- Bini RM. *see* Abbruzzese, Napoleone, & others. 1990;49:111-4*
- Blackbourne LH. *see* Kron, Flanagan, & others. 1990;49:920-6*
- Blackstone EH. *see* Kirklin, Neves, & others. 1990;49:625-31*
- Blaisdell FW. Assessment of spinal cord blood supply during aortic operations. 1990;49:522,ED
- Blakeman BP & Wilber D. Surgical ablation for idiopathic ventricular tachycardia. 1990;49:314-6,CR
- Blauth C. *see* Gaer, Blauth, & others. 1990;49:152-3,HW
- Blondeau P. *see* Chauvaud, Serraf, & others. 1990;49:875-80*
- Bloomfield P. *see* Campanella, Hider, & others. 1990;49:168,CP
- Boineau JP. *see* Chang, Schuessler, & others. 1990;49:231-41*
- Boineau JP. *see* Harada, Tweddell, & others. 1990;49:649-55*
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- Bolman RM III. *see* Braunlin, Canter, & others. 1990;49:385-90*
- Bolooki H. *see* Reichman, Joyo, & others. 1990;49:101-5,DI
- Bonfils-Roberts EA, Nickodem A, & Nealon TF Jr. Retrospective analysis of the efficacy of open lung biopsy in acquired immunodeficiency syndrome. 1990;49:115-7*
- Bonser RS, Dave JR, Davies ET, John L, Taylor P, Gaya H, Lennox SC, & Vergani D. Reduction of complement activation during bypass by prime manipulation. 1990;49:279-83*
- Boorstein SM. *see* Stone, Rosengard, & others. 1990;49:927-31*
- Borovetz HS. *see* Kormos, Borovetz, & others. 1990;49:261-72*
- Borst HG. *see* Heinemann, Lass, & others. 1990;49:580-4*
- Bortolotti U, Faggian G, Mazzucco A, Milano A, Thiene G, Fasoli G, & Gallucci V. Right atrial myxoma originating from the inferior vena cava. 1990;49:1000-2,CR
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- Bos J. *see* David, Bos, & others. 1990;49:701-5*
- Bourgeois I. *see* Chachques, Grandjean, & others. 1990;49:225-30*
- Bove EL. *see* Bolling, Iannetoni, & others. 1990;49:887-94*
- Bove EJ. *see* Phillips, Kongtahworn, & others. 1990;49:734-9,DI
- Bradley S. *see* Crombleholme, Adzick, & others. 1990;49:55-60*
- Braidley PC. *see* Chen, Braidley, & others. 1990;49:137-9,CR
- Braimbridge M. Research and the practicing surgeon. 1990;49:694-700*
- Braimbridge MV. *see* Putnam, Lammermeier, & others. 1990;49:909-15,DI
- Branham BH. *see* Chang, Schuessler, & others. 1990;49:231-41*
- Branham BH. *see* Harada, Tweddell, & others. 1990;49:649-55*
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- Brofman PR. *see* David, Bos, & others. 1990;49:701-5*
- Bromberg J. *see* Orringer, Forastiere, & others. 1990;49:348-55*
- Browdie DA, Agnew RF, Devig P, Hamilton CH, Bernstein RV, Damle A, Norberg W, Jenny D, & Atwood G. Operation for hypertrophic cardiomyopathy. 1990;49:1024-5,CP
- Brown HS. *see* Altorki, Skinner, & others. 1990;49:724-7,DI
- Brown HS. *see* Lewis, Ajilouni, & others. 1990;49:728-33,DI
- Brown HS. *see* Wain, Wilson, & others. 1990;49:881-6,DI
- Brown JW. *see* Stone, Brown, & others. 1990;49:476-8,CR
- Brown JW. *see* Turrentine, Kesler, & others. 1990;49:574-9*
- Brutel de la Riviere A, Defauw JJAMT, Hamerlijnck RPHM, Knaepen PJ, van Swieten HA, & Vermeulen FEE. Internal mammary artery grafts. 1990;49:166,CP
- Bunn PA Jr. Operation for stage IIIa small cell lung cancer? 1990;49:691,ED
- Burge JR. *see* Edwards, Bellamy, & others. 1990;49:603-11*
- Burkhoff D. Myocardial energetics and the postischemic heart. 1990;49:525-7,ED
- Burkholder JA. *see* Demmy, Park, & others. 1990;49:458-62*
- Burnett CM, Rosemurgy AS, & Pfeiffer EA. Life-threatening acute posterior mediastinitis due to esophageal perforation. 1990;49:979-83*
- Burrows PE. *see* Caspi, Coles, & others. 1990;49:273-8*
- Burt M. *see* Read, Yoder, & Schaeffer. 1990;49:391-400,DI
- Butman SM. *see* Copeland, Butman, & Sethi. 1990;49:106-10*
- Button JH. *see* Galbut, Traad, & others. 1990;49:195-201*
- Buxton B & Knight S. Retrophrenic location of the internal mammary artery graft. 1990;49:1011-2,HW
- Cabrera Fischer EI. *see* Chachques, Grandjean, & others. 1990;49:225-30*
- Cain ME. *see* Chang, Schuessler, & others. 1990;49:231-41*
- Caldwell R. *see* Stone, Brown, & others. 1990;49:476-8,CR
- Calhoun TR, Johnston RH, McKowen RL, Garcia-Rinaldi R. Retrograde coronary sinus cardioplegia in redo aortocoronary bypass. 1990;49:687,CP
- Cameron DE. *see* Gardner, Greene, & others. 1990;49:188-94*
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- Campbell DB & Waldhausen JA. Coractation of the aorta: a surgical option revisited. 1990;49:863,ED
- Campbell F. *see* Kappa, Fisher, & others. 1990;49:714-23*
- Campo E. *see* Abad, Campo, & others. 1990;49:305-8,CR
- Canal D. *see* Stone, Brown, & others. 1990;49:476-8,CR
- Canavan TE. *see* Chang, Schuessler, & others. 1990;49:231-41*
- Canter CE. *see* Braunlin, Canter, & others. 1990;49:385-90*
- Canver CC, Lajos TZ, Bernstein Z, DuBois DP, & Mentzer RM Jr. Intracavitary melanoma of the left atrium. 1990;49:312-3,CR
- Cao D-F. *see* Ding, Su, & others. 1990;49:664-6,CR
- Carlson MD. *see* Eleftheriades, Biblo, & others. 1990;49:94-100*
- Carotti A. *see* Corno, Giamberti, & others. 1990;49:492-4,HW

- Carotti A. *see* Snir, Carotti, & Stark. 1990;49:661-3,CR
 Carpenter MA. *see* Kron, Flanagan, & others. 1990;49:920-6*
 Carpentier A. Mitral valve annuloplasty. 1990;49:508,CP
 Carpentier A. *see* Acar, Deloche, & others. 1990;49:959-63*
 Carpentier A. *see* Chachques, Grandjean, & others. 1990;49:225-30*
 Carpentier A. *see* Chauvaud, Serraf, & others. 1990;49:875-80*
 Carpentier A. *see* Dreyfus, Serraf, & others. 1990;49:706-13*
 Carrier M, Wild J, Pelletier LC, & Copeland JG. Bromocriptine as an adjuvant to cyclosporine immunosuppression after heart transplantation. 1990;49:129-32*
 Casale AS. *see* Gardner, Greene, & others. 1990;49:188-94*
 Caspi J, Coles JG, Benson LN, Freedom RM, Burrows PE, Smallhorn JF, Trusler GA, & Williams WG. Management of neonatal critical pulmonic stenosis in the balloon valvotomy era. 1990;49:273-8*
 Castaneda AR. *see* Caspi, Coles, & others. 1990;49:273-8,DI
 Castaneda-Zuniga WR. *see* Varela, Maynar, & others. 1990;49:806-9*
 Chachques JC, Grandjean PA, Cabrera Fischer EI, Latremouille C, Jebara VA, Bourgeois I, & Carpentier A. Dynamic aortomyoplasty to assist left ventricular failure. 1990;49:225-30*
 Chachques JC. *see* Acar, Deloche, & others. 1990;49:959-63*
 Chandramouli B. *see* Phillips, Kongtahworn, & others. 1990;49:734-9*
 Chang B-C, Schuessler RB, Stone CM, Branham BH, Canavan TE, Boineau JP, Cain ME, Corr PB, & Cox JL. Computerized activation sequence mapping of the human atrial septum. 1990;49:231-41*
 Chang C-H. *see* Chang, Chang, & others. 1990;49:466-8,CR
 Chang J-P, Chang C-H, Yeh S-J, Yamamoto T, & Wu D. Surgical cure of automatic atrial tachycardia by partial left atrial isolation. 1990;49:466-8,CR
 Chauvaud S, Serraf A, Mihaileanu S, Soyer R, Blondeau P, Dubost C, & Carpentier A. Ventricular septal defect associated with aortic valve incompetence: results of two surgical managements. 1990;49:875-80*
 Chauvaud S. *see* Dreyfus, Serraf, & others. 1990;49:706-13*
 Chechani V. Tetracycline pleurodesis for persistent air leak. 1990;49:166-7,CP
 Chen TF, Braidley PC, Shneerson JM, & Wells FC. Obstructing tracheal lipoma: management of a rare tumor. 1990;49:137-9,CR
 Chiang F. *see* de Virgilio, Nelson, & others. 1990;49:638-42,CR
 Chitwood WR Jr. *see* Murphy, Sweeney, & others. 1990;49:612-8,DI
 Chiu RC-J. Thoracoscopic ablation of blebs. 1990;49:851,CP
 Chiu RC-J. *see* Li, Hill, & others. 1990;49:356-62*
 Christakis GT. *see* David, Bos, & others. 1990;49:701-5*
 Clark RE. Who, hobbies, and heroes. 1990;49:515-21,PA
 Clark RE. *see* Kron, Flanagan, & others. 1990;49:920-6,DI
 Clark RE. *see* Stone, Rosengard, & others. 1990;49:927-31*
 Clark RE. *see* Yokoyama, Julian, & others. 1990;49:894-902,DI
 Clarke JP. *see* Putnam, Lammermeier, & others. 1990;49:909-15,DI
 Clements FM. *see* Harpole, Rankin, & others. 1990;49:866-74*
 Cochran RP & Rohrich RJ. Repair of sternal dehiscence using a Harrington compression system. 1990;49:853,CP
 Cogbill TH. *see* Johnson, Gundersen, & others. 1990;49:771-4*
 Cohen A. *see* Edwards, Bellamy, & others. 1990;49:603-11*
 Cohen C. *see* Craver, Cohen, & Weintraub. 1990;49:964-9*
 Cohen CL. *see* Jones, Weintraub, & others. 1990;49:370-84*
 Cohn LH. *see* Braunlin, Canter, & others. 1990;49:385-90,DI
 Cohn LH. *see* DiSesa, Kuo, & others. 1990;49:220-4*
 Cohn LH. *see* Jones, Weintraub, & others. 1990;49:370-84,DI
 Coleman JJ III. *see* Mansour, Picone, & Coleman. 1990;49:597-602
 Coleman MJ. *see* Kohman, Coleman, & Parker. 1990;49:454-7*
 Coles JG. *see* Caspi, Coles, & others. 1990;49:273-8*
 Collins JJ Jr. *see* DiSesa, Kuo, & others. 1990;49:220-4*
 Colman RW. Platelet and neutrophil activation in cardiopulmonary bypass. 1990;49:32-4*
 Colon R. *see* Putnam, Lammermeier, & others. 1990;49:909-15*
 Colson M. *see* Li, Hill, & others. 1990;49:356-62*
 Colvin SB. *see* Galloway, Colvin, & others. 1990;49:84-93*
 Conacher ID. *see* Kirk, Conacher, & others. 1990;49:147-9,CR
 Condom E. *see* Abad, Campo, & others. 1990;49:305-8,CR
 Conetta D. *see* Goedde, Conetta, & Rumisek. 1990;49:317-8,CR
 Conti VR. *see* Kurusz, Conti, & Arens. 1990;49:511,CP
 Cooley DA. Repair of the calcified ventricular aneurysm. 1990;49:489-90,HW
 Cooley DA. Repair of the difficult ventriculotomy. 1990;49:150-1,HW
 Cooley DA. *see* Murphy, Sweeney, & others. 1990;49:612-8*
 Cooley DA. *see* Woloszyn, Marini, & others. 1990;49:78-83,DI
 Coons MS. *see* Woloszyn, Marini, & others. 1990;49:78-83*
 Cooper JD. *see* Pasque, Cooper, & others. 1990;49:785-91*
 Cooper JD. *see* Schreinemakers, Weder, & others. 1990;49:44-54*
 Cooper JD. *see* Turrentine, Kesler, & others. 1990;49:574-9,DI
 Copeland JG, Butman SM, & Sethi G. Successful coronary artery bypass grafting for high-risk left main coronary artery atherosclerosis after cardiac transplantation. 1990;49:106-10*
 Copeland JG. *see* Carrier, Wild, & others. 1990;49:129-32*
 Copeland JG. *see* DiSesa, Kuo, & others. 1990;49:220-4,DI
 Coraim F. *see* Seitelberger, Zwölfer, & others. 1990;49:61-8*
 Cordell AR. *see* Yokoyama, Julian, & others. 1990;49:894-902*
 Corno A, Giamberti A, Carotti A, Giannico S, Marino B, & Marcelletti C. Total anomalous pulmonary venous connection: surgical repair with a double-patch technique. 1990;49:492-4,HW
 Corr PB. *see* Chang, Schuessler, & others. 1990;49:231-41*
 Corrigan VE. *see* Jones, Weintraub, & others. 1990;49:370-84*
 Corris PA. *see* Kirk, Conacher, & others. 1990;49:147-9,CR
 Coselli JS. *see* Svensson, Patel, & others. 1990;49:528-36*
 Cosgrove DM, Ratliff NB, Schaff HV, & Edwards WD. Aortic valve decalcification: history repeated with a new result. 1990;49:689-90,ED
 Cosgrove DM. *see* Loop, Lytle, & others. 1990;49:179-87*
 Couetil JP. *see* Dreyfus, Serraf, & others. 1990;49:706-13*
 Cox JL. *see* Chang, Schuessler, & others. 1990;49:231-41*
 Cox JL. *see* Guiraudon, Klein, & others. 1990;49:565-73,DI
 Cox JL. *see* Harada, Tweddell, & others. 1990;49:649-55*
 Cox WL Jr. *see* Putnam, Lammermeier, & others. 1990;49:909-15,DI
 Craft RB. *see* Gelfand, Simmons, & others. 1990;49:435-9*
 Craver JM. Aortic valve debridement by ultrasonic surgical aspirator: a word of caution. 1990;49:746-53*
 Craver JM, Cohen C, & Weintraub WS. Case-matched comparison of mitral valve replacement and repair. 1990;49:964-9*
 Craver JM. *see* Edwards, Bellamy, & others. 1990;49:603-11,DI
 Craver JM. *see* Jones, Weintraub, & others. 1990;49:370-84*
 Crawford ES. *see* Svensson, Patel, & others. 1990;49:528-36*
 Crawford FA Jr. *see* Hendry, Packer, & others. 1990;49:253-60,DI
 Croce A. *see* Venuta, Rendina, & others. 1990;49:1026-7,CP
 Crombleholme TM, Adzick NS, Longaker M, Bradley S, Duncan BW, Verrier ED, & Harrison MR. Reduced-size lung transplantation in neonatal swine: technique and short-term physiological response. 1990;49:55-60*
 Crosby E. *see* Robblee, Crosby, & Keon. 1990;49:512,CP
 Culliford AT. *see* Galloway, Colvin, & others. 1990;49:84-93*
 Culliford AT. *see* Kouchoukos, Wareing, & others. 1990;49:210-9,DI

- Culliford AT. *see* LaMendola, Culliford, & others. 1990;49:1009-10,CR
- Cunningham JN. *see* Woloszyn, Marini, & others. 1990;49:78-83*
- Curtis MJ. *see* Mori, Miyamoto, & others. 1990;49:413-8*
- Daicoff GR. *see* Edwards, Bellamy, & others. 1990;49:603-11,DI
- Daicoff GR. *see* Tuna, Orszulak, & others. 1990;49:619-24,DI
- Daicoff GR. *see* Yokoyama, Julian, & others. 1990;49:894-902,DI
- Daily PO. *see* Reichman, Joyo, & others. 1990;49:101-5*
- Dal Col RH, Zeevi A, Rabinowich H, Herlan DB, Yousem SA, & Griffith BP. Donor-specific cytotoxicity testing: an advance in detecting pulmonary allograft rejection. 1990;49:754-8*
- Daly BDT. *see* Lewis, Pearlberg, & others. 1990;49:591-6,DI
- Damle A. *see* Browdie, Agnew, & others. 1990;49:1024-5,CP
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- Streicher J. *see* Bavaria, Furukawa, & others. 1990;49:123-8*
- Strickett MG. *see* Morris, Strickett, & Barratt-Boyes. 1990;49:802-5*
- Su Z-K. *see* Ding, Su, & others. 1990;49:664-6,CR
- Subayi J-B. *see* Menasché, Subayi, & Piwnica. 1990;49:556-64*
- Sugimachi K. *see* Mori, Ohno, & others. 1990;49:284-6*
- Sulayman RF. *see* DeLeon, Ilbawi, & others. 1990;49:429-34*
- Suma H. Spasm of the gastroepiploic artery graft. 1990;49:168-9,CP
- Suma H. *see* Koike, Suma, & others. 1990;49:656-8,CR
- Suma H. *see* Oku, Yamane, & others. 1990;49:767-70*
- Sutter FP. *see* Brdlik, Laub, & others. 1990;49:822-3,CR
- Svensson LG, Patel V, Coselli JS, & Crawford ES. Preliminary report of localization of spinal cord blood supply by hydrogen during aortic operations. 1990;49:528-36*
- Sweeney MS. *see* Murphy, Sweeney, & others. 1990;49:612-8*
- Taegtmeier H. Cardiac function with glucose-insulin-potassium solution. Reply. 1990;49:1026,CP
- Tahata T. *see* Okita, Miki, & others. 1990;49:672-3,CR
- Tahata T. *see* Okita, Miki, & others. 1990;49:775-9*
- Takada K. *see* Harada, Tatsuno, & others. 1990;49:826-7,CR
- Takahashi M. *see* Katagiri, Tanabe, & others. 1990;49:145-6,CR
- Takahashi Y. *see* Harada, Tatsuno, & others. 1990;49:826-7,CR

- Takao A. *see* Nishida, Endo, & others. 1990;49:483-5,CR
 Takasugi BJ. *see* Orringer, Forastiere, & others. 1990;49:348-55*
 Takeuchi A. *see* Koike, Suma, & others. 1990;49:656-8,CR
 Takeuchi A. *see* Oku, Yamane, & others. 1990;49:767-70*
 Tamisier D, Vouhé PR, Vernant F, Leca F, Massot C, & Neveux J-Y. Modified Blalock-Taussig shunts: results in infants less than 3 months of age. 1990;49:797-801
 Tamura T. *see* Okita, Miki, & others. 1990;49:672-3,CR
 Tamura T. *see* Okita, Miki, & others. 1990;49:775-9*
 Tanabe Y. *see* Katagiri, Tanabe, & others. 1990;49:145-6,CR
 Tanaka J. *see* Nakamura, Masuda, & others. 1990;49:973-8*
 Tanimoto Y, Matsuda Y, Masuda T, Sakata K, Kobayashi Y, Hayashi K, Aoki M, Matsuzaki M, & Hamada Y. Multiple free (aorta-coronary) gastroepiploic artery grafting. 1990;49:479-80,CR
 Taskinen E. *see* Salminen, Halttunen, & others. 1990;49:830-2,CR
 Tassies D. *see* Abad, Campo, & others. 1990;49:305-8,CR
 Tatsuno K. *see* Harada, Tatsuno, & others. 1990;49:826-7,CR
 Taylor P. *see* Bonser, Dave, & others. 1990;49:279-83*
 Taylor PC. *see* Loop, Lytle, & others. 1990;49:179-87*
 Tei T. *see* Yamaguchi, Nishikawa, & others. 1990;49:473-5,CR
 Teoh KH, Ivanov J, & Weisel RD. Determinants of survival and valve failure after mitral valve replacement. 1990;49:643-8*
 Terasaki P. Getting the most mileage from donated hearts. 1990;49:177-8,ED
 Theman TE. Resection of atriocaval adrenal carcinoma. 1990;49:170,CP
 Thiene G. *see* Bortolotti, Faggian, & others. 1990;49:1000-2,CR
 Thiene G. *see* Bortolotti, Maraglino, & others. 1990;49:449-53*
 Thilenius OG. *see* DeLeon, Ilbawi, & others. 1990;49:429-34*
 Thomas P, Rubinstein L, & Lung Cancer Study Group. Cancer recurrence after resection: T1 N0 non-small cell lung cancer. 1990;49:242-7*
 Thompson L. *see* Edwards, Bellamy, & others. 1990;49:603-11*
 Thompson L. *see* Edwards, Wind, & others. 1990;49:486-8,CR
 Thompson SA. *see* El Khatib, Thompson, & Lupinetti. 1990;49:792-6*
 Thurer RL. *see* Johnson, Dhillon, & others. 1990;49:740-5*
 Thurer RL. *see* Jones, McCoy, & others. 1990;49:585-90,DI
 Tibi PR. *see* Acar, Deloche, & others. 1990;49:959-63*
 Tikkanen I. *see* Hynynen, Salmenpera, & others. 1990;49:632-7*
 Tobin GR II. *see* Slater, Gott, & others. 1990;49:810-3*
 Todd B. *see* Kappa, Fisher, & others. 1990;49:714-23*
 Todd TRJ. *see* Wain, Wilson, & others. 1990;49:881-6,DI
 Tokunaga K. *see* Nakamura, Masuda, & others. 1990;49:973-8*
 Toscano M. *see* Biagi, Gotti, & others. 1990;49:998-9,CR
 Toshima Y. *see* Nakamura, Masuda, & others. 1990;49:973-8*
 Toursarkissian B, O'Connor WN, & Dillon ML. Mediastinal epithelioid hemangioendothelioma. 1990;49:680-5,CV
 Townsend ER. *see* Gaer, Blauth, & others. 1990;49:152-3,HW
 Townsend ER. *see* Gaer, Townsend, & Fountain. 1990;49:1027,CP
 Traad EA. *see* Galbut, Traad, & others. 1990;49:195-201*
 Trastek VF. *see* Perry, Venzon, & others. 1990;49:363-9,DI
 Triantafillou A. *see* Pasque, Cooper, & others. 1990;49:785-91*
 Trigg ME. *see* Lupinetti, Giller, & Trigg. 1990;49:991-2*
 Trinkle JK. *see* Gustafson, Murray, & others. 1990;49:940-7,DI
 Trinkle JK. *see* Schreinemakers, Weder, & others. 1990;49:44-54,DI
 Trinkle JK. *see* Stone, Rosengard, & others. 1990;49:927-31,DI
 Trulock EP. *see* Pasque, Cooper, & others. 1990;49:785-91*
 Trusler GA. *see* Caspi, Coles, & others. 1990;49:273-8*
 Trusler GA. *see* Chauvaud, Serraf, & others. 1990;49:875-80,DI
 Tsuboi H. *see* Mori, Miyamoto, & others. 1990;49:413-8*
 Tsutsui S. *see* Mori, Ohno, & others. 1990;49:284-6*
 Tucker BL. *see* Stoneburner, Tucker, & Hurvitz. 1990;49:140-2,CR
 Tuna IC, Orszulak TA, Schaff HV, & Danielson GK. Results of homograft aortic valve replacement for active endocarditis. 1990;49:619-24*
 Turina M. *see* Ni, von Segesser, & Turina. 1990;49:445-8*
 Turley K. *see* Bolling, Iannettoni, & others. 1990;49:887-93,DI
 Turrentine MW, Kesler KA, Wright CD, McEwen KE, Faught PR, Miller ME, Mahomed Y, King H, & Brown JW. Effect of omental, intercostal, and internal mammary artery pedicle wraps on bronchial healing. 1990;49:574-9*
 Tweddell JS. *see* Harada, Tweddell, & others. 1990;49:649-55*
 Tyers GFO. Mitral valve replacement: what should be the standard technique? 1990;49:861-2,ED
 Tyers GFO. *see* Fleisher, Tyers, & others. 1990;49:309-11,CR
 Tyras DH. *see* Weinstein, Rao, & Tyras. 1990;49:419-23*
 Ueda Y. *see* Okita, Miki, & others. 1990;49:672-3,CR
 Ueda Y. *see* Okita, Miki, & others. 1990;49:775-9*
 Unruh H, Hoppensack M, & Oppenheimer L. Vascular properties of canine lungs perfused with Eurocollins solution and prostacyclin. 1990;49:292-8*
 Upchurch GR Jr. *see* Ramadan, Upchurch, & others. 1990;49:916-9*
 Urba S. *see* Orringer, Forastiere, & others. 1990;49:348-55*
 Vander Salm TJ. Internal mammary artery grafts. Reply. 1990;49:166,CP
 Vander Salm TJ. *see* Metz & Keats. 1990;49:440-4*
 van Son JAM. *see* Vincent, van Son, & Skotnicki. 1990;49:323-5,HW
 van Swieten HA. *see* Brutel de la Riviere, Defauw, & others. 1990;49:166,CP
 Van Trigt P. *see* Harpole, Rankin, & others. 1990;49:866-74*
 Varela A, Maynar M, Irving D, Dick R, Reyes R, Rousseau H, Lopez L, Pulido-Duque JM, Letourneau JG, & Castaneda-Zuniga WR. Use of Gianturco self-expandable stents in the tracheobronchial tree. 1990;49:806-9*
 Venuta F, Rendina EA, Pescarmona EO, Primerano G, Croce A, De Vincentiis M, & Ricci C. Lipoid pneumonia after laryngectomy mimicking pulmonary malignancy. 1990;49:1026-7,CP
 Venzon D. *see* Perry, Venzon, & others. 1990;49:363-9*
 Verdant A. Traumatic rupture of the thoracic aorta. 1990;49:686,CP
 Vergani D. *see* Bonser, Dave, & others. 1990;49:279-83*
 Vermeulen FEE. *see* Brutel de la Riviere, Defauw, & others. 1990;49:166,CP
 Vernant F. *see* Tamisier, Vouhé, & others. 1990;49:797-801*
 Verrier ED. *see* Crombleholme, Adzick, & others. 1990;49:55-60*
 Vicens A. *see* Letang, Sanchez-Lloret, & others. 1990;49:955-8*
 Vincent JG, van Son JAM, & Skotnicki SH. Inferior epigastric artery as a conduit in myocardial revascularization: the alternative free arterial graft. 1990;49:323-5,HW
 Vinten-Johansen J. *see* Yokoyama, Julian, & others. 1990;49:894-902*
 von Segesser LK. *see* Ni, von Segesser, & Turina. 1990;49:445-8*
 Vosloo S. *see* Reichart, Vosloo, & Holl. 1990;49:333-40,CV
 Vouhé PR. *see* Tamisier, Vouhé, & others. 1990;49:797-801*
 Wahi R. *see* Ovil, Wahi, & others. 1990;49:143-4,CR
 Wain JC, Wilson DJ, & Mathisen DJ. Clinical experience with minitracheostomy. 1990;49:881-6*
 Wain JC. *see* Crombleholme, Adzick, & others. 1990;49:55-60,DI
 Wakabayashi A. Thoracoscopic ablation of blebs. Reply. 1990;49:851,CP
 Waldhausen JA. *see* Campbell & Waldhausen. 1990;49:863,ED
 Waldo AL. *see* Eleftheriades, Biblo, & others. 1990;49:94-100*
 Walker DR. *see* Satur & Walker. 1990;49:491,HW

- Walker WE. *see* Kron, Flanagan, & others. 1990;49:920-6,DI
 Walker WE. *see* Murphy, Sweeney, & others. 1990;49:612-8*
 Walker WS. Operation for hypertrophic cardiomyopathy. Reply. 1990;49:1025,CP
 Wampler RK. *see* Frazier, Wampler, & others. 1990;49:299-304*
 Warden HE. *see* Gustafson, Murray, & others. 1990;49:940-7*
 Wareing TH. *see* Kouchoukos, Wareing, & others. 1990;49:210-9*
 Warren SE. *see* Lewis, Ajilouni, & others. 1990;49:728-33,DI
 Washio M. *see* Oizumi, Hoshi, & others. 1990;49:824-5,CR
 Watanabe M. *see* Kato, Onuki, & others. 1990;49:951-4*
 Watkins L Jr. *see* Gardner, Greene, & others. 1990;49:188-94*
 Watterson KG, Dhasmana JP, O'Higgins JW, & Wisheart JD. Distal aortic pressure during coarctation operation. 1990;49:987-90*
 Webber EM. *see* Fleisher, Tyers, & others. 1990;49:309-11,CR
 Weber H. *see* Seitelberger, Zwölfer, & others. 1990;49:61-8*
 Wechsler AS. *see* Harpole, Rankin, & others. 1990;49:866-74,DI
 Wechsler AS. *see* Yeh, Hanan, & others. 1990;49:932-9*
 Weder W. *see* Schreinemakers, Weder, & others. 1990;49:44-54*
 Weiman DS. Ectopic ossification after median sternotomy. 1990;49:510,CP
 Weinstein GS & Levin B. Crossovers in coronary artery bypass grafting trials. 1990;49:847,CP
 Weinstein GS, Rao PS, & Tyras DH. Reduction of myocardial injury with verapamil before aortic cross-clamping. 1990;49:419-23*
 Weintraub RM. *see* Johnson, Dhillon, & others. 1990;49:740-5*
 Weintraub WS. *see* Craver, Cohen, & Weintraub. 1990;49:964-9*
 Weintraub WS. *see* Jones, Weintraub, & others. 1990;49:370-84*
 Weisel RD. *see* Kappa, Fisher, & others. 1990;49:714-23,DI
 Weisel RD. *see* Seitelberger, Zwölfer, & others. 1990;49:61-8,DI
 Weisel RD. *see* Teoh, Ivanov, & Weisel. 1990;49:643-8*
 Weiss CI. *see* Heerdt & Weiss. 1990;49:463-5*
 Wells FA. *see* Forty & Wells. 1990;49:670-1,CR
 Wells FC. *see* Chen, Bradley, & others. 1990;49:137-9,CR
 Weston L. *see* Edwards, Bellamy, & others. 1990;49:603-11*
 Wetstein L. *see* Putnam, Lammermeier, & others. 1990;49:909-15,DI
 Wheatley MJ, Stirling MC, Kirsh MM, Gago O, & Orringer MB. Descending necrotizing mediastinitis: transcervical drainage is not enough. 1990;49:780-4*
 White JJ. *see* Gustafson, Murray, & others. 1990;49:940-7,DI
 Whyte RI. *see* Page, Khalil, & others. 1990;49:763-6*
 Wilber D. *see* Blakeman & Wilber. 1990;49:314-6,CR
 Wild J. *see* Carrier, Wild, & others. 1990;49:129-32*
 Wilkins E. *see* Kirschner. 1990;49:550-5,DI
 Williams WG. *see* Caspi, Coles, & others. 1990;49:273-8*
 Williamson WA, Ellis FH Jr, Gibb SP, Shahian DM, & Aretz HT. Effect of antireflux operation on Barrett's mucosa. 1990;49:537-42*
 Willman VL. *see* Fiore, Naunheim, & others. 1990;49:202-9*
 Willman VL. *see* Kaiser, Naunheim, & others. 1990;49:903-8*
 Wilson DJ. *see* Wain, Wilson, & Mathisen. 1990;49:881-6*
 Wind G. *see* Edwards, Wind, & others. 1990;49:486-8,CR
 Wisheart JD. *see* Watterson, Dhasmana, & others. 1990;49:987-90*
 Wolfe WG. *see* Harpole, Rankin, & others. 1990;49:866-74*
 Wolner E. *see* Seitelberger, Zwölfer, & others. 1990;49:61-8*
 Woloszyn TT, Marini CP, Coons MS, Nathan IM, Basu S, Acinapura AJ, & Cunningham JN. Cerebrospinal fluid drainage and steroids provide better spinal cord protection during aortic cross-clamping than does either treatment alone. 1990;49:78-83*
 Wong D. *see* David, Bos, & others. 1990;49:701-5*
 Wood MK. Aortic homograft for aortic valve endocarditis. 1990;49:342,CP
 Wood MK. Repair of ductus diverticulum aneurysm. 1990;49:169,CP
 Wright CD. *see* Turrentine, Kesler, & others. 1990;49:574-9*
 Wu D. *see* Chang, Chang, & others. 1990;49:466-8,CR
 Yamaguchi M, Nishikawa Y, Hosokawa Y, Ohashi H, Oshima Y, & Tei T. Cor triatriatum, coarctation of the aorta, and ventricular septal defect: a rare, surgically correctable anomaly. 1990;49:473-5,CR
 Yamamoto T. *see* Chang, Chang, & others. 1990;49:466-8,CR
 Yamanaka K. *see* Okita, Miki, & others. 1990;49:672-3,CR
 Yamanaka K. *see* Okita, Miki, & others. 1990;49:775-9*
 Yamane S. *see* Oku, Yamane, & others. 1990;49:767-70*
 Yee R. *see* Guiraudon, Klein, & others. 1990;49:565-73*
 Yeh S-J. *see* Chang, Chang, & others. 1990;49:466-8,CR
 Yeh T Jr, Hanan SA, Johnson DE, Rebeyka IM, Abd-Elfattah AS, Lee KF, & Wechsler AS. Superior myocardial preservation with modified UW solution after prolonged ischemia in the rat heart. 1990;49:932-9*
 Yellin A & Lieberman Y. Management of sternal tumors. 1990;49:852,CP
 Yoder G. *see* Read, Yoder, & Schaeffer. 1990;49:391-400*
 Yokoyama H, Julian JS, Vinten-Johansen J, Johnston WE, Smith TD, McGee DS, & Cordell AR. Postischemic [Ca²⁺] repletion improves cardiac performance without altering oxygen demands. 1990;49:894-902*
 Yoshizawa K. *see* Miura, Hori, & others. 1990;49:828-9,CR
 Young WG. *see* Harpole, Rankin, & others. 1990;49:866-74*
 Yousem SA, Ray L, Paradis IL, Dauber JA, & Griffith BP. Potential role of dendritic cells in bronchiolitis obliterans in heart-lung transplantation. 1990;49:424-8*
 Yousem SA. *see* Dal Col, Zeevi, & others. 1990;49:754-8*
 Yousem SA. *see* Dowling, Baladi, & others. 1990;49:118-22*
 Yuki Y. *see* Oizumi, Hoshi, & others. 1990;49:824-5,CR
 Zeevi A. *see* Dal Col, Zeevi, & others. 1990;49:754-8*
 Zeff RH. *see* Phillips, Kongtaworn, & others. 1990;49:734-9*
 Zenati M. *see* Dowling, Baladi, & others. 1990;49:118-22*
 Ziemer G. *see* Phillips, Kongtaworn, & others. 1990;49:734-9,DI
 Ziemer G. *see* Schreinemakers, Weder, & others. 1990;49:44-54,DI
 Zwölfer W. *see* Seitelberger, Zwölfer, & others. 1990;49:61-8*

Subject Index

Volume 49 (January-June 1990)

KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

* = Original Article	CP = Correspondence	KR = Key References
AN = Announcement	CT = Collective Review	PA = Presidential Address
CL = Classics in Thoracic Surgery	CV = Current Review	RE = Report
CR = Case Report	ED = Editorial	RV = Review of Recent Books
	HW = How to Do It	

Abscess

Myocardial abscess in a patient with AIDS-related complex: pericardial patch repair (Egan, Maitland, & others) 1990; 49:481-2,CR

Abnormalities

Chiari network entrapment of thromboemboli: congenital inferior vena cava filter (Goedde, Conetta, & Rumisek) 1990; 49:317-8,CR

Cor triatriatum, coarctation of the aorta, and ventricular septal defect: a rare, surgically correctable anomaly (Yamaguchi, Nishikawa, & others) 1990;49:473-5,CR

Management of major tracheal hemorrhage after repair of complex congenital heart defects (Snir, Carotti, & Stark) 1990;49:661-3,CR

Achalasia

Familial achalasia in children (Monnig) 1990;49:1019-22,CV

Acquired immunodeficiency syndrome

Can AIDS be prevented after injury with contaminated instruments? (Robicsek, Duncan, & others) 1990;49:984-6*

Myocardial abscess in a patient with AIDS-related complex: pericardial patch repair (Egan, Maitland, & others) 1990; 49:481-2,CR

Retrospective analysis of the efficacy of open lung biopsy in acquired immunodeficiency syndrome (Bonfils-Roberts, Nickodem, & Nealon) 1990;49:115-7*

Adolescence

Coronary artery bypass in a 15-year-old girl with pseudoxanthoma elasticum (Nishida, Endo, & others) 1990;49:483-5,CR

Age factors

Routine use of the left internal mammary artery graft in the elderly (Gardner, Greene, & others) 1990;49:188-94*

Ten-year experience with aortic valve replacement in 482 patients 70 years of age or older: operative risk and long-term results (Galloway, Colvin, & others) 1990;49: 84-93

Analgesia

Cryoanalgesia for postthoracotomy pain (Berrisford & Sabanathan) 1990;49:509,CP; Reply (Katz) 1990;49:510,CP

Anaphylaxis

Use of bovine lung heparin to obviate anaphylactic shock caused by porcine gut heparin (Harada, Tatsuno, & others) 1990;49:826-7,CR

Anastomosis, surgical

Disruption of the aortic anastomosis after heart-lung transplantation (Dowling, Baladi, & others) 1990;49:118-22*

Unusually early recoarctation after extended end-to-end anastomosis in an neonate (Maehara, de Leval, & Elliott) 1990;49:814-5,CR

Anatomy

Direct revascularization of bronchial arteries for lung transplantation: an anatomical study (Schreinemakers, Weder, & others) 1990;49:44-54*

Aneurysm

Congenital aneurysm of the left atrial wall in infancy (Stone, Brown, & others) 1990;49:476-8,CR

Long-term results of direct aortoplasty for repair of aortic coarctation in adults (Heikkinen & Ala-Kulju) 1990;49: 948-50*

Multiple aneurysms of the coronary arteries in a patient with systemic aneurysmal disease (LaMendola, Culliford, & others) 1990;49:1009-10,CR

Multiple congenital aneurysms of the atria (Okita, Miki, & others) 1990;49:672-3,CR

Repair of the calcified ventricular aneurysm (Cooley) 1990;49: 489-90,HW

Repair of ductus diverticulum aneurysm (Wood) 1990;49: 169,CP

Thoracic aortic aneurysms after acute type A aortic dissection: necessity for follow-up (Heinemann, Laas, & others) 1990; 49:580-4*

Three-dimensional image reconstruction for planning of a complex cardiovascular procedure (Edwards, Wind, & others) 1990;49:486-8,CR

Anoxemia

Hypoxemia after intraluminal oxygen line obstruction during cardiopulmonary bypass (Dickinson) 1990;49:512,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP

Antigens

Effect of storage at 4°C in a nutrient medium on antigenic properties of rat aortic valve allografts (El Khatib, Thompson, & others) 1990;49:792-6*

Use of aortic valve allografts from hepatitis B surface antigen-positive donors (Morris, Strickett, & Barratt-Boyes) 1990; 49:802-5*

Aorta

Ascending aortic dissection in weight lifters with cystic medial degeneration (de Virgilio, Nelson, & others) 1990;49: 638-42*

Assessment of spinal cord blood supply during aortic operations (Blaisdell) 1990;49:522,ED

Disruption of the aortic anastomosis after heart-lung transplantation (Dowling, Baladi, & others) 1990;49:118-22*

Dynamic aortomyoplasty to assist left ventricular failure (Chachques, Grandjean, & others) 1990;49:225-30*

Preliminary report of localization of spinal cord blood supply by hydrogen during aortic operations (Svensson, Patel, & others) 1990;49:528-36*

Aorta (cont'd)

- Survival after embolization of a complete prosthetic aortic valve to the aortic arch (Stoneburner, Tucker, & Hurvitz) 1990;49:140-2,CR
- Toward a durable and safe aortic root reconstruction (Helseth) 1990;49:678-9,CL
- Traumatic rupture of the thoracic aorta (Verdant) 1990;49:686,CP; Reply (Hess) 1990;49:686,CP; Reply (Mattox) 1990;49:687,CP

Aorta, thoracic

- Cerebrospinal fluid drainage and steroids provide better spinal cord protection during aortic cross-clamping than does either treatment alone (Woloszyn, Marini, & others) 1990;49:118-22*
- One-stage repair of absence of the aortopulmonary septum and interrupted aortic arch (Ding, Su, & others) 1990;49:664-6,CR
- Reduction of myocardial injury with verapamil before aortic cross-clamping (Weinstein, Rao, & Tyras) 1990;49:419-23*
- Thoracic aortic aneurysms after acute type A aortic dissection: necessity for follow-up (Heinemann, Laas, & others) 1990;49:580-4*

Aortic coarctation

- Coarctation of the aorta: a surgical option revisited (Campbell & Waldhausen) 1990;49:863,ED
- Cor triatriatum, coarctation of the aorta, and ventricular septal defect: a rare, surgically correctable anomaly (Yamaguchi, Nishikawa, & others) 1990;49:473-5,CR
- Distal aortic pressure during coarctation operation (Watterson, Dhasmana, & others) 1990;49:987-90*
- Incidence and risk of reintervention after coarctation repair (Kron, Flanagan, & others) 1990;49:920-6*
- Isolated myocardial perfusion during arch repair (Sano & Mee) 1990;49:970-2*
- Long-term results of direct aortoplasty for repair of aortic coarctation in adults (Heikkinen & Ala-Kulju) 1990;49:948-50*
- Unusually early recoarctation after extended end-to-end anastomosis in an neonate (Maehara, de Leval, & Elliott) 1990;49:814-5,CR

Aortic rupture

- Ascending aortic dissection in weight lifters with cystic medial degeneration (de Virgilio, Nelson, & others) 1990;49:638-42*
- Thoracic aortic aneurysms after acute type A aortic dissection: necessity for follow-up (Heinemann, Laas, & others) 1990;49:580-4*

Aortic valve

- Aortic homograft for aortic valve endocarditis (Wood) 1990;49:342,CP
- Aortic valve debridement by ultrasonic surgical aspirator: a word of caution (Craver) 1990;49:746-53*
- Aortic valve decalcification: history repeated with a new result (Cosgrove, Ratliff, & others) 1990;49:689-90,ED
- Aortic valve disruption after percutaneous aortic balloon valvoplasty (Brdlik, Laub, & others) 1990;49:822-3,CR
- Aortic valve operation after percutaneous aortic balloon valvoplasty (Johnson, Dhillon, & others) 1990;49:740-5*
- Aortic valvoplasty for traumatic aortic insufficiency: a 2-year follow-up (Ovil, Wahi, & others) 1990;49:143-4,CR
- Early manifestation of noncalcific aortic stenosis after porcine valve replacement (Amidi, Ferson, & others) 1990;49:471-2,CR
- Effect of storage at 4°C in a nutrient medium on antigenic properties of rat aortic valve allografts (El Khatib, Thompson, & others) 1990;49:792-6*
- Results of homograft aortic valve replacement for active endocarditis (Tuna, Orszulak, & others) 1990;49:619-24*

Retrograde coronary sinus cardioplegia for aortic valve operations: a clinical report on 500 patients (Menasche, Subayi, & Piwnica) 1990;49:556-64*

Survival after embolization of a complete prosthetic aortic valve to the aortic arch (Stoneburner, Tucker, & Hurvitz) 1990;49:140-2,CR

Ten-year experience with aortic valve replacement in 482 patients 70 years of age or older: operative risk and long-term results (Galloway, Colvin, & others) 1990;49:84-93

Transatrial relief of diffuse subaortic stenosis after ventricular septal defect closure (DeLeon, Ilbawi, & others) 1990;49:429-34*

Use of aortic valve allografts from hepatitis B surface antigen-positive donors (Morris, Strickett, & Barratt-Boyes) 1990;49:802-5*

Ventricular septal defect associated with aortic valve incompetence: results of two surgical managements (Chauvaud, Serraf, & others) 1990;49:875-80*

Aortocoronary bypass. See Coronary artery bypass.

Aortopulmonary septal defect

One-stage repair of absence of the aortopulmonary septum and interrupted aortic arch (Ding, Su, & others) 1990;49:664-6,CR

Aprotinin

Aprotinin and open heart operations (Frater) 1990;49:851,CP

Arrhythmias

Computerized activation sequence mapping of the human atrial septum (Chang, Schuessler, & others) 1990;49:231-41*

Evolving patterns in the surgical treatment of malignant ventricular tachyarrhythmias (Elefteriades, Biblo, & others) 1990;49:94-100*

Surgery for ventricular arrhythmia (Moran) 1990;49:837-9,CL

Arteries

Effect of omental, intercostal, and internal mammary artery pedicle wraps on bronchial healing (Turrentine, Kesler, & others) 1990;49:574-9*

Assisted circulation

Effect of circulatory assist devices on stunned myocardium (Bavaria, Furukawa, & others) 1990;49:123-8*

Experience with univentricular support in mortally ill cardiac transplant candidates (Kormos, Borovetz, & others) 1990;49:261-72*

First human use of the Hemopump, a catheter-mounted ventricular assist device (Frazier, Wampler, & others) 1990;49:299-304*

Implantable rate-responsive counterpulsation assist system (Li, Hill, & others) 1990;49:356-62*

Atherosclerosis

Successful coronary artery bypass grafting for high-risk left main coronary artery atherosclerosis after cardiac transplantation (Copeland, Butman, & Sethi) 1990;49:106-10*

Atrium. See Heart atrium.

Automatic implantable cardioverter defibrillator

Evolving patterns in the surgical treatment of malignant ventricular tachyarrhythmias (Elefteriades, Biblo, & others) 1990;49:94-100*

Bacterial infections

Bacteremia and sternal infection after coronary artery bypass grafting (Kohman, Coleman, & Parker) 1990;49:454-7*

Balloon dilation

Aortic valve disruption after percutaneous aortic balloon valvoplasty (Brdlik, Laub, & others) 1990;49:822-3,CR

Aortic valve operation after percutaneous aortic balloon valvoplasty (Johnson, Dhillon, & others) 1990;49:740-5*

- Fatal left ventricular perforation during mitral balloon valvoplasty (Robertson, de Virgilio, & others) 1990;49:819-21,CR
- Management of neonatal critical pulmonic stenosis in the balloon valvotomy era (Caspi, Coles, & others) 1990;49:273-8*
- Operative findings after percutaneous mitral dilation (Acar, Deloche, & others) 1990;49:959-63*
- Barrett's esophagus**
- Controversies about Barrett's esophagus (Skinner) 1990;49:523-4,ED
- Effect of antireflux operation on Barrett's mucosa (Williamson, Ellis, & others) 1990;49:537-42*
- Indications for esophagectomy in nonmalignant Barrett's esophagus: a 10-year experience (Altorki, Skinner, & others) 1990;49:724-7*
- Biomechanics**
- Experience with univentricular support in mortally ill cardiac transplant candidates (Kormos, Borovetz, & others) 1990;49:261-72*
- Bioprosthesis**
- Ten-year experience with porcine bioprosthetic valve: interrelationship of valve survival and patient survival in 1,050 valve replacements (Jones, Weintraub, & others) 1990;49:370-84*
- Biopsy**
- Alternate technique for biopsy in lung transplantation patients (Madoff) 1990;49:342-3,CP
- Retrospective analysis of the efficacy of open lung biopsy in acquired immunodeficiency syndrome (Bonfils-Roberts, Nickodem, & Nealon) 1990;49:115-7*
- Björk-Shiley valve**
- Björk-Shiley strut fracture and disc escape (Lochridge) 1990;49:166,CP
- Blalock-Taussig shunts**
- Modified Blalock-Taussig shunts: results in infants less than 3 months of age (Tamisier, Vouhe, & others) 1990;49:797-801*
- Blood cells**
- Platelet and neutrophil activation in cardiopulmonary bypass (Colman) 1990;49:32-4*
- Blood circulation**
- Assessment of spinal cord blood supply during aortic operations (Blaisdell) 1990;49:522,ED
- Can AIDS be prevented after injury with contaminated instruments? (Robicsek, Duncan, & others) 1990;49:984-6*
- Controlled initial hyperkalemic reperfusion after cardiac transplantation: coronary vascular resistance and blood flow (Kirklin, Neves, & others) 1990;49:625-31*
- Preliminary report of localization of spinal cord blood supply by hydrogen during aortic operations (Svensson, Patel, & others) 1990;49:528-36*
- Blood platelets**
- Intraoperative management of patients with heparin-induced thrombocytopenia (Kappa, Fisher, & others) 1990;49:714-23*
- Blood pressure**
- Ascending aortic dissection in weight lifters with cystic medial degeneration (de Virgilio, Nelson, & others) 1990;49:638-42*
- Distal aortic pressure during coarctation operation (Watterson, Dhasmana, & others) 1990;49:987-90*
- Partial biventricular repair for double-outlet right ventricle with left ventricular hypoplasia (Day, Laks, & others) 1990;49:1003-5,CR
- Blood transfusion**
- Comparative study of Cell Saver and ultrafiltration nontransfusion in cardiac surgery (Nakamura, Masuda, & others) 1990;49:973-8*
- Effects of intraoperative plasmapheresis on blood loss in cardiac surgery (Jones, McCoy, & others) 1990;49:585-90*
- Blood volume**
- Effects of intraoperative plasmapheresis on blood loss in cardiac surgery (Jones, McCoy, & others) 1990;49:585-90*
- Bone neoplasms**
- Survival after surgical resection for high-grade chest wall sarcomas (Perry, Venzon, & others) 1990;49:363-9*
- Book reviews**
- Cardiac Arrhythmias*, 3rd edition, by Bennett (Peters) 1990;49:499,RV
- Diagnosis of Diseases of the Chest*, 3rd Edition, Volume II, by Fraser, Pare, & others (Moores) 1990;49:954,RV
- Heart and Heart-Lung Transplantation*, edited by Wallwork (Miller) 1990;49:805,RV
- Manual of Perioperative Care in Cardiac and Thoracic Surgery*, by Bojar (Kriett) 1990;49:663,RV
- New Trends in Heart Transplantation (Bibliotheca Cardiologica, No. 43. Series Editors, J.J.Kellermann and Tel Hasomer)* edited by Wolner, Laczkovics, & Havel (Mullany) 1990;49:658,RV
- Pediatric Brain Death and Organ/Tissue Retrieval. Medical, Ethical, and Legal Aspects*, edited by Kaufman (Kaye) 1990;49:774,RV
- Thymic Tumors. 7th Cancer Research Workshop, Grenoble, October 1987*, edited by Sarrazin, Vrousos, & Vincent (Shennib) 1990;49:151,RV
- Brachytherapy**
- Role of brachytherapy in the management of pulmonary and mediastinal malignancies (Lewis, Ajlouni, & others) 1990;49:728-33*
- Bromocriptine**
- Bromocriptine as an adjuvant to cyclosporine immunosuppression after heart transplantation (Carrier, Wild, & others) 1990;49:129-32*
- Bronchi**
- Congenital bronchoesophageal fistula (Risher, Arensman, & Ochsner) 1990;49:500-5,CT
- Effect of omental, intercostal, and internal mammary artery pedicle wraps on bronchial healing (Turrentine, Kesler, & others) 1990;49:574-9*
- Malignant tracheobronchial obstruction (Gaer, Townsend, & Fountain) 1990;49:1027,CP; Reply (McElvein) 1990;49:1027,CP
- Successful surgical management of bronchial dehiscence after single-lung transplantation (Kirk, Conacher, & others) 1990;49:147-9,CR
- Surgery of giant bulla with tube drainage and bronchofiberoptic bronchial occlusion (Oizumi, Hoshi, & others) 1990;49:824-5,CR
- Use of Gianturco self-expandable stents in the tracheobronchial tree (Varela, Maynar, & others) 1990;49:806-9*
- Bronchial artery**
- Direct revascularization of bronchial arteries for lung transplantation: an anatomical study (Schreinemakers, Weder, & others) 1990;49:44-54*
- Bronchiolitis**
- Improved technique for bilateral lung transplantation: rationale and initial clinical experience (Pasque, Cooper, & others) 1990;49:785-91*
- Potential role of dendritic cells in bronchiolitis obliterans in heart-lung transplantation (Yousem, Ray, & others) 1990;49:424-8*

Bulla

Surgery of giant bulla with tube drainage and bronchoscopic bronchial occlusion (Oizumi, Hoshi, & others) 1990;49:824-5,CR

Calcification

Repair of the calcified ventricular aneurysm (Cooley) 1990;49:489-90,HW

Calcium

Postischemic $[Ca^{2+}]$ repletion improves cardiac performance without altering oxygen demands (Yokoyama, Julian, & others) 1990;49:894-902*

Calcium channel blocker

Endothelial cell thromboxane production and its inhibition by a calcium channel blocker (Ramadan, Upchurch, & others) 1990;49:916-9*

Candidiasis

Candida mediastinitis after a cardiac operation (Glower, Douglas, & others) 1990;49:157-63,CV

Disruption of the aortic anastomosis after heart-lung transplantation (Dowling, Baladi, & others) 1990;49:118-22*

Carcinoma, esophageal

Effect of antireflux operation on Barrett's mucosa (Williamson, Ellis, & others) 1990;49:537-42*

Surgery for high cervical esophageal carcinoma: experience with 11 patients (Mansour, Picone, & Coleman) 1990;49:597-602*

Esophageal carcinoma in young patients (Mori, Ohno, & others) 1990;49:284-6*

Carcinoma, lung

Predicted pulmonary function and survival after pneumonectomy for primary lung carcinoma (Putnam, Lammermeier, & others) 1990;49:909-15*

Carcinoma, non-small cell lung

Cancer recurrence after resection: T1 N0 non-small cell lung cancer (Thomas, Rubinstein, & others) 1990;49:242-7*

Survival after conservative resection for T1 N0 M0 non-small cell lung cancer (Read, Yoder, & Schaeffer) 1990;49:391-400*

Carcinoma, small cell

Operation for N2 small cell lung carcinoma (Salzer, Muller, & others) 1990;49:759-62*

Operation for small cell lung cancer—where are we? (Ginsberg) 1990;49:692-3,ED

Operation for stage IIIa small cell lung cancer? (Bunn) 1990;49:691,ED

Cardiac massage

The introduction of closed chest cardiac massage (Bolling) 1990;49:154-6,CL

Cardiac pacing, artificial

Forceps extraction of permanent pacing leads (Kratz, Leman, & Gillette) 1990;49:676-7,HW

Cardiac tamponade

Atrial pressure and hormonal and renal responses to acute cardiac tamponade (Hynynen, Salmenpera, & others) 1990;49:632-7*

Cardiomyopathy

Operation for hypertrophic cardiomyopathy (Browdie, Agnew, & others) 1990;49:1024-5,CP; Reply (Walker) 1990;49:1025,CP

Cardioplegia. See Heart arrest, induced**Cardiopulmonary bypass**

Cardiac hemangioma with papillary endothelial hyperplasia: report of a resected case and review of the literature (Camp, Estruch, & others) 1990;49:305-8,CR

Case-matched comparison of mitral valve replacement and repair (Craver, Cohen, & Weintraub) 1990;49:964-9*

Comparative study of Cell Saver and ultrafiltration nontransfusion in cardiac surgery (Nakamura, Masuda, & others) 1990;49:973-8*

Hypoxemia after intraluminal oxygen line obstruction during cardiopulmonary bypass (Dickinson) 1990;49:512,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP

Improved patient survival after cardiac arrest using a cardiopulmonary support system (Reichman, Joyo, & others) 1990;49:101-5*

Isolated myocardial perfusion during arch repair (Sano & Mee) 1990;49:970-2*

Low activated coagulation time during cardiopulmonary bypass does not increase postoperative bleeding (Metz & Keats) 1990;49:440-4*

Oxygenator failure (Kurusz, Conti, & Arens) 1990;49:511,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP

Platelet and neutrophil activation in cardiopulmonary bypass (Colman) 1990;49:32-4*

Reduction of complement activation during bypass by prime manipulation (Bonser, Dave, & others) 1990;49:279-83*

Skeletonization of the atrioventricular node for AV node reentrant tachycardia: experience with 32 patients (Guiraudon, Klein, & others) 1990;49:565-73*

Use of bovine lung heparin to obviate anaphylactic shock caused by porcine gut heparin (Harada, Tatsuno, & others) 1990;49:826-7,CR

Case reports

Aortic valve disruption after percutaneous aortic balloon valvoplasty (Brdlik, Laub, & others) 1990;49:822-3,CR

Aortic valvoplasty for traumatic aortic insufficiency: a 2-year follow-up (Ovil, Wahi, & others) 1990;49:143-4,CR

Cardiac hemangioma with papillary endothelial hyperplasia: report of a resected case and review of the literature (Camp, Estruch, & others) 1990;49:305-8,CR

Chiari network entrapment of thromboemboli: congenital inferior vena cava filter (Goedde, Conetta, & Rumisek) 1990;49:317-8,CR

Congenital aneurysm of the left atrial wall in infancy (Stone, Brown, & others) 1990;49:476-8,CR

Cor triatriatum, coarctation of the aorta, and ventricular septal defect: a rare, surgically correctable anomaly (Yamaguchi, Nishikawa, & others) 1990;49:473-5,CR

Coronary artery bypass in a 15-year-old girl with pseudoxanthoma elasticum (Nishida, Endo, & others) 1990;49:483-5,CR

Coronary artery bypass grafting with unanticipated fibrosing mediastinitis (Holman, Sethi, & Scott) 1990;49:321-2,CR

Cystic pulmonary hamartoma (Miura, Hori, & others) 1990;49:828-9,CR

Descending necrotizing mediastinitis: transcervical drainage is not enough (Wheatley, Stirling, & others) 1990;49:780-4,CR

Dissection of the left main coronary artery: diagnosis by angioscopy (Richens, Renzulli, & Hilton) 1990;49:469-70,CR

Dumbbell metastatic cystosarcoma phyllodes of the heart and lung (Fleisher, Tyers, & others) 1990;49:309-11,CR

Early manifestation of noncalcific aortic stenosis after porcine valve replacement (Amidi, Ferson, & others) 1990;49:471-2,CR

Echocardiographic diagnosis and surgical treatment of postpartum pulmonary embolism (Rosenberg, Lefor, & others) 1990;49:667-9,CR

Esophagogastrrectomy via left thoracophrenotomy (Page, Khalil, & others) 1990;49:763-6,CR

- Fatal left ventricular perforation during mitral balloon valvoplasty (Robertson, de Virgilio, & others) 1990;49:819-21,CR
- Free arterial graft as internal mammary artery-Y complex (Koike, Suma, & others) 1990;49:656-8,CR
- Group F streptococcal empyema from aspiration of a grass inflorescence (Baethge, Eggerstedt, & Olash) 1990;49:319-20,CR
- Intracavitary melanoma of the left atrium (Canver, Lajos, & others) 1990;49:312-3,CR
- Management of major tracheal hemorrhage after repair of complex congenital heart defects (Snir, Carotti, & Stark) 1990;49:661-3,CR
- Melanotic schwannoma of the sympathetic ganglia: pathological and clinical characteristics (Abbott, Hill, & others) 1990;49:1006-8,CR
- Multiple aneurysms of the coronary arteries in a patient with systemic aneurysmal disease (LaMendola, Culliford, & others) 1990;49:1009-10,CR
- Multiple congenital aneurysms of the atria (Okita, Miki, & others) 1990;49:672-3,CR
- Multiple free (aorta-coronary) gastroepiploic artery grafting (Tanimoto, Matsuda, & others) 1990;49:479-80,CR
- Myocardial abscess in a patient with AIDS-related complex: pericardial patch repair (Egan, Maitland, & others) 1990;49:481-2,CR
- Myocardial revascularization with the lateral costal artery (Hartman, Mawulawde, & others) 1990;49:816-8,CR
- Obstructing tracheal lipoma: management of a rare tumor (Chen, Braidley, & others) 1990;49:137-9,CR
- One-stage repair of absence of the aortopulmonary septum and interrupted aortic arch (Ding, Su, & others) 1990;49:664-6,CR
- Open fixation of flail chest after blunt trauma (Haasler) 1990;49:993-5,CR
- Operative treatment of *Fusarium* fungal infection of the lung (Lupinetti, Giller, & Trigg) 1990;49:991-2,CR
- Partial biventricular repair for double-outlet right ventricle with left ventricular hypoplasia (Day, Laks, & others) 1990;49:1003-5,CR
- Pleural chondrosarcoma (Bailey & Head) 1990;49:996-7,CR
- Recurrence and malignant transformation of endotracheal chondroma (Salminen, Halttunen, & others) 1990;49:830-2,CR
- Right atrial myxoma originating from the inferior vena cava (Bortolotti, Faggian, & others) 1990;49:1000-2,CR
- Right atrial thrombosis: association with constrictive pericarditis (Katagiri, Tanabe, & others) 1990;49:145-6,CR
- Sternal wire-induced persistent chest pain: a possible hypersensitivity reaction (Fine & Karwande) 1990;49:135-6,CR
- Successful surgical management of bronchial dehiscence after single-lung transplantation (Kirk, Conacher, & others) 1990;49:147-9,CR
- Surgery of giant bulla with tube drainage and bronchofiberoptic bronchial occlusion (Oizumi, Hoshi, & others) 1990;49:824-5,CR
- Surgical ablation for idiopathic ventricular tachycardia (Blake-man & Wilber) 1990;49:314-6,CR
- Surgical cure of automatic atrial tachycardia by partial left atrial isolation (Chang, Chang, & others) 1990;49:466-8,CR
- Survival after embolization of a complete prosthetic aortic valve to the aortic arch (Stoneburner, Tucker, & Hurvitz) 1990;49:140-2,CR
- Three-dimensional image reconstruction for planning of a complex cardiovascular procedure (Edwards, Wind, & others) 1990;49:486-8,CR
- Traumatic intercostal pulmonary hernia (Forty & Wells) 1990;49:670-1,CR
- Tricuspid regurgitation with postinfarction ventricular septal defect (Feng, Singh, & Moran) 1990;49:659-60,CR
- Uncommon intrathoracic extrapulmonary tumor: primary hemangiopericytoma (Biagi, Gotti, & others) 1990;49:998-9,CR
- Unusually early recoarctation after extended end-to-end anastomosis in an neonate (Maehara, de Leval, & Elliott) 1990;49:814-4,CR
- Use of bovine lung heparin to obviate anaphylactic shock caused by porcine gut heparin (Harada, Tatsuno, & others) 1990;49:826-7,CR
- Catheterization**
- Dissection of the left main coronary artery: diagnosis by angioscopy (Richens, Renzulli, & Hilton) 1990;49:469-70,CR
- Venous cannulation for high-flow femorofemoral bypass (Smith, Getrajdman, & Hsu) 1990;49:674-5,HW
- Werner Forssmann and catheterization of the heart, 1929 (Meyer) 1990;49:497-9,CL
- Cefamandole**
- Cefamandole versus cefonicid prophylaxis in cardiovascular surgery: a prospective study (Gelfand, Simmons, & others) 1990;49:435-9*
- Cefonicid**
- Cefamandole versus cefonicid prophylaxis in cardiovascular surgery: a prospective study (Gelfand, Simmons, & others) 1990;49:435-9*
- Cerebrospinal fluid**
- Cerebrospinal fluid drainage and steroids provide better spinal cord protection during aortic cross-clamping than does either treatment alone (Woloszyn, Marini, & others) 1990;49:78-83*
- Chest.** See Thorax
- Chest pain**
- Sternal wire-induced persistent chest pain: a possible hypersensitivity reaction (Fine & Karwande) 1990;49:135-6,CR
- Chiari network**
- Chiari network entrapment of thromboemboli: congenital inferior vena cava filter (Goedde, Conetta, & Rumisek) 1990;49:317-8,CR
- Child**
- Distal aortic pressure during coarctation operation (Watterson, Dhasmana, & others) 1990;49:987-90*
- Familial achalasia in children (Monnig) 1990;49:1019-22,CV
- Partial biventricular repair for double-outlet right ventricle with left ventricular hypoplasia (Day, Laks, & others) 1990;49:1003-5,CR
- Role of lung decortication in symptomatic empyemas in children (Gustafson, Murray, & others) 1990;49:940-7*
- Transvenous pacing in infants and children with congenital heart disease (Spotnitz) 1990;49:495-6,HW
- Chondrosarcoma**
- Pleural chondrosarcoma (Bailey & Head) 1990;49:996-7,CR
- Chondroma**
- Recurrence and malignant transformation of endotracheal chondroma (Salminen, Halttunen, & others) 1990;49:830-2,CR
- Circulatory support.** See Assisted circulation.
- Classics in thoracic surgery**
- Individual ligation technique for lower lobe lobectomy (Faber) 1990;49:1016-8,CL
- The introduction of closed chest cardiac massage (Bolling) 1990;49:154-6,CL
- C. Walton Lillehei and total correction of tetralogy of Fallot (Gott) 1990;49:328-32,CL

Classics in thoracic surgery (cont'd)

- Surgery for ventricular arrhythmia (Moran) 1990;49:837-9,CL
 Toward a durable and safe aortic root reconstruction (Helseth) 1990;49:678-9,CL
 Werner Forssman and catheterization of the heart, 1929 (Meyer) 1990;49:497-9,CL

Coagulation

- Low activated coagulation time during cardiopulmonary bypass does not increase postoperative bleeding (Metz & Keats) 1990;49:440-4*

Collective review

- Congenital bronchoesophageal fistula (Risher, Arensman, & Ochsner) 1990;49:500-5,CT

Combined modality therapy

- Perioperative multimodality management of esophageal cancer: therapeutic or investigational? (Steiger) 1990;49:345-6,ED

Complement

- Reduction of complement activation during bypass by prime manipulation (Bonser, Dave, & others) 1990;49:279-83*

Computed tomography. See Tomography, x-ray computed.**Computer imaging**

- Computerized activation sequence mapping of the human atrial septum (Chang, Schuessler, & others) 1990;49:231-41*
 Computerized potential distribution mapping: a new intraoperative mapping technique for ventricular tachycardia surgery (Harada, Tweddell, & others) 1990;49:649-55*
 Three-dimensional image reconstruction for planning of a complex cardiovascular procedure (Edwards, Wind, & others) 1990;49:486-8,CR

Congenital defects. See Abnormalities.**Cor triatriatum**

- Cor triatriatum, coarctation of the aorta, and ventricular septal defect: a rare, surgically correctable anomaly (Yamaguchi, Nishikawa, & others) 1990;49:473-5,CR

Coronary artery bypass

- Bacteremia and sternal infection after coronary artery bypass grafting (Kohman, Coleman, & Parker) 1990;49:454-7*
 Coronary artery bypass in a 15-year-old girl with pseudoxanthoma elasticum (Nishida, Endo, & others) 1990;49:483-5,CR
 Coronary artery bypass grafting with unanticipated fibrosing mediastinitis (Holman, Sethi, & Scott) 1990;49:321-2,CR
 Crossovers in coronary artery bypass grafting trials (Weinstein & Levin) 1990;49:847,CP; Reply (Fisher, Kaiser, & others) 1990;49:848,CP
 Effects of intraoperative plasmapheresis on blood loss in cardiac surgery (Jones, McCoy, & others) 1990;49:585-90*
 Importance of precordial electrocardiogram monitoring during coronary artery bypass grafting (Bahadir & Diethrich) 1990;49:169-70,CP
 Infusion of nifedipine after coronary artery bypass grafting decreases the incidence of early postoperative myocardial ischemia (Seitelberger, Zwolfer, & others) 1990;49:61-8*
 Reduction of myocardial injury with verapamil before aortic cross-clamping (Weinstein, Rao, & Tyras) 1990;49:419-23*
 Retrograde coronary sinus cardioplegia in redo aortocoronary bypass (Calhoun, Johnston, & others) 1990;49:687,CP; Reply (Snyder) 1990;49:688,CP
 Selective approach to sternal closure after exploration for hemorrhage following coronary artery bypass (Johnson, Gundersen, & others) 1990;49:771-4*
 Sternal wound complications after isolated coronary artery bypass grafting: early and late mortality, morbidity, and cost of care (Loop, Lytle, & others) 1990;49:179-87*

- Successful coronary artery bypass grafting for high-risk left main coronary artery atherosclerosis after cardiac transplantation (Copeland, Butman, & Sethi) 1990;49:106-10*
 True emergency coronary artery bypass surgery (Edwards, Bellamy, & others) 1990;49:603-11*

Coronary artery disease

- Extended use of bilateral internal mammary arteries for coronary artery disease (Slater, Gott, & Gray) 1990;49:1014-5,HW

Coronary disease

- Multiple free (aorta-coronary) gastroepiploic artery grafting (Tanimoto, Matsuda, & others) 1990;49:479-80,CR
 Myocardial energetics and the postischemic heart (Burkhoff) 1990;49:525-7,ED

Coronary vessels

- Circumflex exposure using a cardiac sling (Galvin & Newman) 1990;49:833-4,HW
 Dissection of the left main coronary artery: diagnosis by angioscopy (Richens, Renzulli, & Hilton) 1990;49:469-70,CR
 Multiple aneurysms of the coronary arteries in a patient with systemic aneurysmal disease (LaMendola, Culliford, & others) 1990;49:1009-10,CR

Correction, 1990;49:854**Correspondence**

- Alternate technique for biopsy in lung transplantation patients (Madoff) 1990;49:342-3,CP
 Aortic homograft for aortic valve endocarditis (Wood) 1990;49:342,CP
 Aprotinin and open heart operations (Frater) 1990;49:851,CP
 Björk-Shiley strut fracture and disc escape (Lochridge) 1990;49:166,CP
 Cardiac function with glucose-insulin-potassium solution (Moulton & Robinson) 1990;49:1025-6,CP; Reply (Taegtmeyer) 1990;49:1026,CP
 The Cardiac Surgery Program of the National Heart, Lung, and Blood Institute (Lenfant) 1990;49:1023-4,CP
 Cell viability in fresh, refrigerated, and cryopreserved human heart valve leaflets (Brockbank) 1990;49:848-9,CP; Reply (Shumway) 1990;49:849,CP
 Crossovers in coronary artery bypass grafting trials (Weinstein & Levin) 1990;49:847,CP; Reply (Fisher, Kaiser, & others) 1990;49:848,CP
 Cryoanalgesia for postthoracotomy pain (Berrisford & Sabanathan) 1990;49:509,CP; Reply (Katz) 1990;49:509-10,CP
 Direct access to the paravertebral space at thoracotomy (Berrisford & Sabanathan) 1990;49:855,CP
 Ectopic ossification after median sternotomy (Weiman) 1990;49:510,CP
 Empyema thoracis (Ribet) 1990;49:510-1,CP
 Hypoxemia after intraluminal oxygen line obstruction during cardiopulmonary bypass (Dickenson) 1990;49:512,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP
 Importance of precordial electrocardiogram monitoring during coronary artery bypass grafting (Bahadir & Diethrich) 1990;49:169-70,CP
 Internal mammary artery grafts (de la Riviere, Defauw, & others) 1990;49:166,CP; Reply (Vander Salm) 1990;49:166,CP
 Lipoid pneumonia after laryngectomy mimicking pulmonary malignancy (Venuta, Rendina, & others) 1990;49:1026-7,CP
 Malignant tracheobronchial obstruction (Gaer, Townsend, & Fountain) 1990;49:1027,CP; Reply (McElvein) 1990;49:1027,CP

- Management of sternal tumors (Yellin & Lieberman) 1990;49:852,CP; Reply (Gabbay) 1990;49:852,CP
- Mitral valve annuloplasty (Carpentier) 1990;49:508,CP; Reply (David) 1990;49:508-9,CP
- Must the mitral valve always be removed during prosthetic replacement? (Campanella, Hider, & others) 1990;49:167-8,CP
- One-stage operation for chronic empyema (Pate) 1990;49:342,CP
- Operation for hypertrophic cardiomyopathy (Browdie, Agnew, & others) 1990;49:1024-5,CP; Reply (Walker) 1990;49:1025,CP
- Oxygenator failure (Kurusz, Conti, & Arens) 1990;49:511-2,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP
- Pericardial flap (Flege) 1990;49:341,CP; Reply (Starr & Moore) 1990;49:342,CP
- Porcine versus pericardial bioprostheses (Stassano, Gagliardi, & Spampinato) 1990;49:840,CP
- Repair of ductus diverticulum aneurysm (Wood) 1990;49:169,CP
- Repair of sternal dehiscence using a Harrington compression system (Cochran & Rohrich) 1990;49:853,CP; Reply (Johnson) 1990;49:854,CP
- Resection of atriocaval adrenal carcinoma (Theman) 1990;49:170,CP
- Retrograde coronary sinus cardioplegia in redo aortocoronary bypass (Calhoun, Johnston, & others) 1990;49:687,CP; Reply (Snyder) 1990;49:688,CP
- Sequel of the internal mammary artery as a systemic-to-pulmonary artery shunt (McKay) 1990;49:341,CP
- Spasm of the gastroepiploic artery graft (Suma) 1990;49:168-9,CP
- Tetracycline pleurodesis for persistent air leak (Chechani) 1990;49:166-7,CP; Reply (Almassi & Haasler) 1990;49:167,CP
- Thoracoscopic ablation of blebs (Chiu) 1990;49:851,CP; Reply (Wakabayashi) 1990;49:851,CP
- Thymectomy for myasthenia gravis (Jaretzki) 1990;49:688,CP; Reply (Mulder) 1990;49:688,CP
- Traumatic rupture of the thoracic aorta (Verdant) 1990;49:686,CP; Reply (Hess) 1990;49:686,CP; Reply (Mattox) 1990;49:687,CP
- Valvular xenograft to bioprosthesis (Hancock) 1990;49:170,CP
- Costal artery**
- Myocardial revascularization with the lateral costal artery (Hartman, Mawulawde, & others) 1990;49:816-8,CR
- Counterpulsation**
- Implantable rate-responsive counterpulsation assist system (Li, Hill, & others) 1990;49:356-62*
- Cryopreservation**
- Cell viability in fresh, refrigerated, and cryopreserved human heart valve leaflets (Brockbank) 1990;49:848,CP; Reply (Shumway) 1990;49:848,CP
- Results of homograft aortic valve replacement for active endocarditis (Tuna, Orszulak, & others) 1990;49:619-24*
- Current reviews**
- Candida* mediastinitis after a cardiac operation (Glower, Douglas, & others) 1990;49:157-63,CV
- Familial achalasia in children (Monnig) 1990;49:1019-22,CV
- Lung and heart-lung transplantation (LeGal) 1990;49:840-4,CV
- Mediastinal epithelioid hemangioendothelioma (Toursarkissian, O'Connor, & Dillon) 1990;49:680-5,CV
- Surgical management of heart-lung transplantation (Reichart, Vosloo, & Holl) 1990;49:333-40,CV
- Cyanosis**
- Modified Blalock-Taussig shunts: results in infants less than 3 months of age (Tamisier, Vouhe, & others) 1990;49:797-801*
- Cyclosporine**
- Bromocriptine as an adjuvant to cyclosporine immunosuppression after heart transplantation (Carrier, Wild, & others) 1990;49:129-32*
- Cystic fibrosis**
- Improved technique for bilateral lung transplantation: rationale and initial clinical experience (Pasque, Cooper, & others) 1990;49:785-91*
- Cystosarcoma phyllodes**
- Dumbbell metastatic cystosarcoma phyllodes of the heart and lung (Fleisher, Tyers, & others) 1990;49:309-11,CR
- Cytotoxicity**
- Donor-specific cytotoxicity testing: an advance in detecting pulmonary allograft rejection (Dal Col, Zeevi, & others) 1990;49:754-8*
- Dacron**
- Repair of the difficult ventriculotomy (Cooley) 1990;49:150-1,HW
- Decortication**
- Role of lung decortication in symptomatic empyemas in children (Gustafson, Murray, & others) 1990;49:940-7*
- Defibrillation**
- Evolving patterns in the surgical treatment of malignant ventricular tachyarrhythmias (Elefteriades, Biblo, & others) 1990;49:94-100*
- Deglutition disorders**
- Cervical exenteration (Grillo & Mathisen) 1990;49:401-9*
- Dendritic cells**
- Potential role of dendritic cells in bronchiolitis obliterans in heart-lung transplantation (Yousem, Ray, & others) 1990;49:424-8*
- Diagnostic imaging**
- Three-dimensional image reconstruction for planning of a complex cardiovascular procedure (Edwards, Wind, & others) 1990;49:486-8,CR
- Diaphragm**
- Correction of total anomalous pulmonary venous connection below the diaphragm (Phillips, Kongtahworn, & others) 1990;49:734-9*
- Diaphragmatic plication for unilateral diaphragmatic paralysis: a 10-year experience (Graham, Kaplan, & others) 1990;49:248-52*
- Dogs**
- Cerebrospinal fluid drainage and steroids provide better spinal cord protection during aortic cross-clamping than does either treatment alone (Woloszyn, Marini, & others) 1990;49:78-83*
- Computerized potential distribution mapping: a new intraoperative mapping technique for ventricular tachycardia surgery (Harada, Tweddell, & others) 1990;49:649-55*
- Donor-specific cytotoxicity testing: an advance in detecting pulmonary allograft rejection (Dal Col, Zeevi, & others) 1990;49:754-8*
- Effect of omental, intercostal, and internal mammary artery pedicle wraps on bronchial healing (Turrentine, Kesler, & others) 1990;49:574-9*
- Experimental reconstruction of the canine trachea with a free revascularized small bowel graft (Letang, Sanchez-Lloret, & others) 1990;49:955-8*
- Implantable rate-responsive counterpulsation assist system (Li, Hill, & others) 1990;49:356-62*

Dogs (cont'd)

Postischemic $[Ca^{2+}]$ repletion improves cardiac performance without altering oxygen demands (Yokoyama, Julian, & others) 1990;49:894-902*

Tracheal reconstruction by esophageal interposition: an experimental study (Kato, Onuki, & others) 1990;49:951-4*

Vascular properties of canine lungs perfused with Eurocollins solution and prostacyclin (Unruh, Hoppensack, & Oppenheimer) 1990;49:292-8*

Drug therapy

Chemotherapy and radiation therapy before transhiatal esophagectomy for esophageal carcinoma (Orringer, Forastiere & others) 1990;49:348-55*

Ductus diverticulum

Repair of ductus diverticulum aneurysm (Wood) 1990;49:169,CP

Echocardiography

Aortic valve debridement by ultrasonic surgical aspirator: a word of caution (Craver) 1990;49:746-53*

Echocardiographic diagnosis and surgical treatment of postpartum pulmonary embolism (Rosenberg, Lefor, & others) 1990;49:667-9,CR

Operative findings after percutaneous mitral dilation (Acar, Deloche, & others) 1990;49:959-63*

Unusually early recoarctation after extended end-to-end anastomosis in an neonate (Maehara, de Leval, & Elliott) 1990;49:814-5,CR

Editorials

Aortic valve decalcification: history repeated with a new result (Cosgrove, Ratliff, & others) 1990;49:689-90,ED

Assessment of spinal cord blood supply during aortic operations (Blaisdell) 1990;49:522,ED

Changing cardiothoracic practice patterns (Rainer) 1990;49:347,ED

Coarctation of the aorta: a surgical option revisited (Campbell & Waldhausen) 1990;49:863,ED

Controversies about Barrett's esophagus (Skinner) 1990;49:523-4,ED

Getting the most mileage from donated hearts (Terasaki) 1990;49:177-8,ED

Mitral valve replacement: what should be the standard technique? (Tyers) 1990;49:861-2,ED

Myocardial energetics and the postischemic heart (Burkhoff) 1990;49:525-7,ED

Operation for small cell lung cancer—where are we? (Ginsberg) 1990;49:692-3,ED

Operation for stage IIIa small cell lung cancer? (Bunn) 1990;49:691,ED

Perioperative multimodality management of esophageal cancer: therapeutic or investigational? (Steiger) 1990;49:345-6,ED

Tracheal replacement (Grillo) 1990;49:864-5,ED

Electrocardiography

Importance of precordial electrocardiogram monitoring during coronary artery bypass grafting (Bahadir & Diethrich) 1990;49:169-70,CP

Electrocoagulation

Thoracoscopic ablation of blebs (Chiu) 1990;49:851,CP; Reply (Wakabayashi) 1990;49:851,CP

Use of the argon beam electrocoagulator for performing pulmonary wedge resections (Rusch, Schmidt, & others) 1990;49:287-91*

Electrolytes

Atrial pressure and hormonal and renal responses to acute cardiac tamponade (Hynynen, Salmenpera, & others) 1990;49:632-7*

Electrophysiology

Computerized activation sequence mapping of the human atrial septum (Chang, Schuessler, & others) 1990;49:231-41*

Computerized potential distribution mapping: a new intraoperative mapping technique for ventricular tachycardia surgery (Harada, Tweddell, & others) 1990;49:649-55*

Skeletonization of the atrioventricular node for AV node reentrant tachycardia: experience with 32 patients (Guiraudon, Klein, & others) 1990;49:565-73*

Embolism

Echocardiographic diagnosis and surgical treatment of postpartum pulmonary embolism (Rosenberg, Lefor, & others) 1990;49:667-9,CR

Embolization

Survival after embolization of a complete prosthetic aortic valve to the aortic arch (Stoneburner, Tucker, & Hurvitz) 1990;49:140-2,CR

Emergency treatment

True emergency coronary artery bypass surgery (Edwards, Bellamy, & others) 1990;49:603-11*

Empyema

Improved technique for bilateral lung transplantation: rationale and initial clinical experience (Pasque, Cooper, & others) 1990;49:785-91*

Surgery of giant bulla with tube drainage and bronchofiberoptic bronchial occlusion (Oizumi, Hoshi, & others) 1990;49:824-5,CR

Empyema

Empyema thoracis (Ribet) 1990;49:510-1,CP

Group F streptococcal empyema from aspiration of a grass inflorescence (Baethge, Eggerstedt, & Olash) 1990;49:319-20,CR

One-stage operation for chronic empyema (Pate) 1990;49:342,CP

Role of lung decortication in symptomatic empyemas in children (Gustafson, Murray, & others) 1990;49:940-7*

Endocarditis

Aortic homograft for aortic valve endocarditis (Wood) 1990;49:342,CP

Heart valve operations in patients with active infective endocarditis (David, Bos, & others) 1990;49:701-5*

Results of homograft aortic valve replacement for active endocarditis (Tuna, Orszulak, & others) 1990;49:619-24*

Valve repair in acute endocarditis (Dreyfus, Serraf, & others) 1990;49:706-13*

Endoscopy

Life-threatening acute posterior mediastinitis due to esophageal perforation (Burnett, Rosemurgy, & Pfeiffer) 1990;49:979-83*

Method of endoscopic esophageal intubation using a rigid esophagoscope (Gaer, Blauth, & others) 1990;49:152-3,HW

Endothelium

Endothelial cell thromboxane production and its inhibition by a calcium channel blocker (Ramadan, Upchurch, & others) 1990;49:916-9*

Energy metabolism

Myocardial energetics and the postischemic heart (Burkhoff) 1990;49:525-7,ED

Relationship between total mechanical energy and oxygen consumption in the stunned myocardium (Furukawa, Bavaria, & others) 1990;49:543-9*

Enzymes

Infusion of nifedipine after coronary artery bypass grafting decreases the incidence of early postoperative myocardial ischemia (Seitelberger, Zwolfer, & others) 1990;49:61-8*

Epigastric artery

Inferior epigastric artery as a conduit in myocardial revascularization: the alternative free arterial graft (Vincent, van Son, & Skotnicki) 1990;49:323-5,HW

Esophagus

- Cervical exenteration (Grillo & Mathisen) 1990;49:401-9*
- Chemotherapy and radiation therapy before transhiatal esophagectomy for esophageal carcinoma (Orringer, Forastiere & others) 1990;49:348-55*
- Congenital bronchoesophageal fistula (Risher, Arensman, & Ochsner) 1990;49:500-5,CT
- Controversies about Barrett's esophagus (Skinner) 1990;49:523-4,ED
- Effect of antireflux operation on Barrett's mucosa (Williamson, Ellis, & others) 1990;49:537-42*
- Esophageal carcinoma in young patients (Mori, Ohno, & others) 1990;49:284-6*
- Esophagectomy for esophageal disruption (Orringer & Stirling) 1990;49:35-43*
- Esophagogastrectomy via left thoracophrenotomy (Page, Khalil, & others) 1990;49:763-6,CR
- Indications for esophagectomy in nonmalignant Barrett's esophagus: a 10-year experience (Altorki, Skinner, & others) 1990;49:724-7*
- Life-threatening acute posterior mediastinitis due to esophageal perforation (Burnett, Rosemurgy, & Pfeiffer) 1990;49:979-83*
- Method of endoscopic esophageal intubation using a rigid esophagoscope (Gaer, Blauth, & others) 1990;49:152-3,HW
- Perioperative multimodality management of esophageal cancer: therapeutic or investigational? (Steiger) 1990;49:345-6,ED
- Surgery for high cervical esophageal carcinoma: experience with 11 patients (Mansour, Picone, & Coleman) 1990;49:597-602*
- Tracheal reconstruction by esophageal interposition: an experimental study (Kato, Onuki, & others) 1990;49:951-4*

Eurocollins solution

Vascular properties of canine lungs perfused with Eurocollins solution and prostacyclin (Unruh, Hoppensack, & Oppenheimer) 1990;49:292-8*

Extracorporeal circulation

- Effect of circulatory assist devices on stunned myocardium (Bavaria, Furukawa, & others) 1990;49:123-8*
- The use of extracorporeal circulation (ECC) for circulatory support during PCTA, 1990;49:514,RE

Femorofemoral bypass

Venous cannulation for high-flow femorofemoral bypass (Smith, Getrajdman, & Hsu) 1990;49:674-5,HW

Fiberoptics

Surgery of giant bulla with tube drainage and bronchofiberoptic bronchial occlusion (Oizumi, Hoshi, & others) 1990;49:824-5,CR

Fibrin

Effect of routine fibrin glue use on the duration of air leaks after lobectomy (Fleisher, Evans, & others) 1990;49:133-4*

Fistula

Congenital bronchoesophageal fistula (Risher, Arensman, & Ochsner) 1990;49:500-5,CT

Forceps

Forceps extraction of permanent pacing leads (Kratz, Leman, & Gillette) 1990;49:676-7,HW

Foreign bodies

Group F streptococcal empyema from aspiration of a grass inflorescence (Baethge, Eggerstedt, & Olash) 1990;49:319-20,CR

Fungus

Operative treatment of *Fusarium* fungal infection of the lung (Lupinetti, Giller, & Trigg) 1990;49:991-2*

Ganglia, sympathetic

Melanotic schwannoma of the sympathetic ganglia: pathological and clinical characteristics (Abbott, Hill, & others) 1990;49:1006-8,CR

Gastroepiploic artery

- Comparison of prostacyclin production of human gastroepiploic artery and saphenous vein (Oku, Yamane, & others) 1990;49:767-70*
- Multiple free (aorta-coronary) gastroepiploic artery grafting (Tanimoto, Matsuda, & others) 1990;49:479-80,CR
- Spasm of the gastroepiploic artery graft (Suma) 1990;49:168-9,CP

Genetic diseases

Familial achalasia in children (Monnig) 1990;49:1019-22,CV

Gianturco stent

Use of Gianturco self-expandable stents in the tracheobronchial tree (Varela, Maynar, & others) 1990;49:806-9*

Glucose

Cardiac function with glucose-insulin-potassium solution (Moulton & Robinson) 1990;49:1025-6,CP; Reply (Taegt-meyer) 1990;49:1026,CP

Graft rejection

HLA histocompatibility affects cardiac transplant rejection and may provide one basis for organ allocation (DiSesa, Kuo, & others) 1990;49:220-4*

Grafts

- Aortic homograft for aortic valve endocarditis (Wood) 1990;49:342,CP
- Effect of omental, intercostal, and internal mammary artery pedicle wraps on bronchial healing (Turrentine, Kesler, & others) 1990;49:574-9*
- Experimental reconstruction of the canine trachea with a free revascularized small bowel graft (Letang, Sanchez-Lloret, & others) 1990;49:955-8*
- Free arterial graft as internal mammary artery-Y complex (Koike, Suma, & others) 1990;49:656-8,CR
- Inferior epigastric artery as a conduit in myocardial revascularization: the alternative free arterial graft (Vincent, van Son, & Skotnicki) 1990;49:323-5,HW
- Internal mammary artery grafts (de la Riviere, Defauw, & others) 1990;49:166,CP; Reply (Vander Salm) 1990;49:166,CP
- Multiple free (aorta-coronary) gastroepiploic artery grafting (Tanimoto, Matsuda, & others) 1990;49:479-80,CR
- Reduced-size lung transplantation in neonatal swine: technique and short-term physiological response (Crombleholme, Adzick, & others) 1990;49:55-60*
- Results of homograft aortic valve replacement for active endocarditis (Tuna, Orszulak, & others) 1990;49:619-24*
- Results of internal thoracic artery grafting over 15 years: single versus double grafts (Fiore, Naunheim, & others) 1990;49:202-9*
- Retrophrenic location of the internal mammary artery graft (Buxton, Knight, & others) 1990;49:1011-2,HW
- Risks of bilateral internal mammary artery bypass grafting (Kouchoukos, Wareing, & others) 1990;49:210-9*
- Routine use of the left internal mammary artery graft in the elderly (Gardner, Greene, & others) 1990;49:188-94*

Grafts (cont'd)

Seventeen-year experience with bilateral internal mammary artery grafts (Galbut, Traad, & others) 1990;49:195-201*

Spasm of the gastroepiploic artery graft (Suma) 1990;49:168-9,CP

Valvular xenograft to bioprosthesis (Hancock) 1990;49:170,CP

Groenblad-Strandberg syndrome

Coronary artery bypass in a 15-year-old girl with pseudoxanthoma elasticum (Nishida, Endo, & others) 1990;49:483-5,CR

Hamartoma

Cystic pulmonary hamartoma (Miura, Hori, & others) 1990;49:828-9,CR

Health care

Changing cardiothoracic practice patterns (Rainer) 1990;49:347,ED

Heart

Cardiac function with glucose-insulin-potassium solution (Moulton & Robinson) 1990;49:1025-6,CP; Reply (Taegtmeyer) 1990;49:1026,CP

Cardiac hemangioma with papillary endothelial hyperplasia: report of a resected case and review of the literature (Camp, Estruch, & others) 1990;49:305-8,CR

Dumbbell metastatic cystosarcoma phyllodes of the heart and lung (Fleisher, Tyers, & others) 1990;49:309-11,CR

Postischemic $[Ca^{2+}]$ repletion improves cardiac performance without altering oxygen demands (Yokoyama, Julian, & others) 1990;49:894-902*

Superior myocardial preservation with modified UW solution after prolonged ischemia in the rat heart (Yeh, Hanan, & others) 1990;49:932-9*

Heart arrest

Improved patient survival after cardiac arrest using a cardiopulmonary support system (Reichman, Joyo, & others) 1990;49:101-5*

Heart arrest, induced

Clinical trial of nicardipine cardioplegia in pediatric cardiac surgery (Mori, Miyamoto, & others) 1990;49:413-8*

Controlled initial hyperkalemic reperfusion after cardiac transplantation: coronary vascular resistance and blood flow (Kirklin, Neves, & others) 1990;49:625-31*

Multiple aneurysms of the coronary arteries in a patient with systemic aneurysmal disease (LaMendola, Culliford, & others) 1990;49:1009-10,CR

Retrograde coronary sinus cardioplegia for aortic valve operations: a clinical report on 500 patients (Menasche, Subayi, & Piwnica) 1990;49:556-64*

Retrograde coronary sinus cardioplegia in redo aortocoronary bypass (Calhoun, Johnston, & others) 1990;49:687,CP; Reply (Snyder) 1990;49:688,CP

Heart atrium

Atrial pressure and hormonal and renal responses to acute cardiac tamponade (Hynynen, Salmenpera, & others) 1990;49:632-7*

Computerized activation sequence mapping of the human atrial septum (Chang, Schuessler, & others) 1990;49:231-41*

Congenital aneurysm of the left atrial wall in infancy (Stone, Brown, & others) 1990;49:476-8,CR

Intracavitary melanoma of the left atrium (Canver, Lajos, & others) 1990;49:312-3,CR

Multiple congenital aneurysms of the atria (Okita, Miki, & others) 1990;49:672-3,CR

Resection of atriocaval adrenal carcinoma (Theman) 1990;49:170,CP

Right atrial myxoma originating from the inferior vena cava (Bortolotti, Faggian, & others) 1990;49:1000-2,CR

Right atrial thrombosis: association with constrictive pericarditis (Katagiri, Tanabe, & others) 1990;49:145-6,CR

Surgical cure of automatic atrial tachycardia by partial left atrial isolation (Chang, Chang, & others) 1990;49:466-8,CR

Transatrial relief of diffuse subaortic stenosis after ventricular septal defect closure (DeLeon, Ilbawi, & others) 1990;49:429-34*

Venous cannulation for high-flow femorofemoral bypass (Smith, Getrajdman, & Hsu) 1990;49:674-5,HW

Heart catheterization

Dissection of the left main coronary artery: diagnosis by angioscopy (Richens, Renzulli, & Hilton) 1990;49:469-70,CR

Werner Forssmann and catheterization of the heart, 1929 (Meyer) 1990;49:497-9,CL

Heart conduction system

Skeletonization of the atrioventricular node for AV node reentrant tachycardia: experience with 32 patients (Guiraudon, Klein, & others) 1990;49:565-73*

Heart defects, congenital

Congenital aneurysm of the left atrial wall in infancy (Stone, Brown, & others) 1990;49:476-8,CR

Cor triatriatum, coarctation of the aorta, and ventricular septal defect: a rare, surgically correctable anomaly (Yamaguchi, Nishikawa, & others) 1990;49:473-5,CR

Management of major tracheal hemorrhage after repair of complex congenital heart defects (Snir, Carotti, & Stark) 1990;49:661-3,CR

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Shone's anomaly: operative results and late outcome (Bolling, Iannettoni, & others) 1990;49:887-93*

Three-dimensional image reconstruction for planning of a complex cardiovascular procedure (Edwards, Wind, & others) 1990;49:486-8,CR

Transvenous pacing in infants and children with congenital heart disease (Spotnitz) 1990;49:495-6,HW

Heart diseases

Multiple free (aorta-coronary) gastroepiploic artery grafting (Tanimoto, Matsuda, & others) 1990;49:479-80,CR

Transvenous pacing in infants and children with congenital heart disease (Spotnitz) 1990;49:495-6,HW

Heart neoplasms

Intracavitary melanoma of the left atrium (Canver, Lajos, & others) 1990;49:312-3,CR

Resection of atriocaval adrenal carcinoma (Theman) 1990;49:170,CP

Heart septal defects, ventricular

Cor triatriatum, coarctation of the aorta, and ventricular septal defect: a rare, surgically correctable anomaly (Yamaguchi, Nishikawa, & others) 1990;49:473-5,CR

Palliative reconstruction of right ventricular outflow tract in tetralogy with hypoplastic pulmonary arteries (Okita, Miki, & others) 1990;49:775-9*

Transatrial relief of diffuse subaortic stenosis after ventricular septal defect closure (DeLeon, Ilbawi, & others) 1990;49:429-34*

Tricuspid regurgitation with postinfarction ventricular septal defect (Feng, Singh, & Moran) 1990;49:659-60,CR

Ventricular septal defect associated with aortic valve incompetence: results of two surgical managements (Chauvaud, Serraf, & others) 1990;49:875-80*

Heart surgery

Aprotinin and open heart operations (Frater) 1990;49:851,CP

- Candida* mediastinitis after a cardiac operation (Glower, Douglas, & others) 1990;49:157-63,CV
- Case-matched comparison of mitral valve replacement and repair (Craver, Cohen, & Weintraub) 1990;49:964-9*
- Changing cardiothoracic practice patterns (Rainer) 1990;49:347,ED
- Circumflex exposure using a cardiac sling (Galvin & Newman) 1990;49:833-4,HW
- Clinical trial of nicardipine cardioplegia in pediatric cardiac surgery (Mori, Miyamoto, & others) 1990;49:413-8*
- Comparative study of Cell Saver and ultrafiltration nontransfusion in cardiac surgery (Nakamura, Masuda, & others) 1990;49:973-8*
- Computerized potential distribution mapping: a new intraoperative mapping technique for ventricular tachycardia surgery (Harada, Tweddell, & others) 1990;49:649-55*
- Effects of intraoperative plasmapheresis on blood loss in cardiac surgery (Jones, McCoy, & others) 1990;49:585-90*
- Effects of standard mitral valve replacement on left ventricular function (Harpole, Rankin, & others) 1990;49:866-74*
- Hospital death on a cardiac surgical service: negative influence of changing practice patterns (McGrath, Laub, & others) 1990;49:410-2*
- Hypoxemia after intraluminal oxygen line obstruction during cardiopulmonary bypass (Dickinson) 1990;49:512,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP
- Incidence and risk of reintervention after coarctation repair (Kron, Flanagan, & others) 1990;49:920-6*
- Isolated myocardial perfusion during arch repair (Sano & Mee) 1990;49:970-2*
- Mediastinitis after cardiac operations (Spencer & Grossi) 1990;49:506-7,KR
- Mitral valve annuloplasty (Carpentier) 1990;49:508,CP; Reply (David) 1990;49:508,CP
- Mitral valve replacement: what should be the standard technique? (Tyers) 1990;49:861-2,ED
- Modified Blalock-Taussig shunts: results in infants less than 3 months of age (Tamisier, Vouhe, & others) 1990;49:797-801*
- Operative findings after percutaneous mitral dilation (Acar, Deloche, & others) 1990;49:959-63*
- Oxygenator failure (Kurusz, Conti, & Arens) 1990;49:511,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP
- Partial biventricular repair for double-outlet right ventricle with left ventricular hypoplasia (Day, Laks, & others) 1990;49:1003-5,CR
- Prostaglandin E₁ and intrapulmonary shunt in cardiac surgical patients with pulmonary hypertension (Heerdt & Weiss) 1990;49:463-5*
- Reoperation in the intensive care unit (Kaiser, Naunheim, & others) 1990;49:903-8*
- Repair of the calcified ventricular aneurysm (Cooley) 1990;49:489-90,HW
- Retrograde coronary sinus cardioplegia for aortic valve operations: a clinical report on 500 patients (Menasche, Subayi, & Piwnica) 1990;49:556-64*
- Surgery for ventricular arrhythmias (Moran) 1990;49:837-9,CL
- Surgical excision of intracardiac myxomas: a 20-year follow-up (Bortolotti, Maraglino, & others) 1990;49:449-53*
- Surgical treatment of cardiac tumors: a 25-year experience (Murphy, Sweeney, & others) 1990;49:612-8*
- Technical and scientific advances in cardiac surgery over the past 25 years (Kirklin) 1990;49:26-31
- Technique for visualization of the functioning mitral valve (Marshall) 1990;49:1013,HW
- Heart transplantation**
- Bromocriptine as an adjuvant to cyclosporine immunosuppression after heart transplantation (Carrier, Wild, & others) 1990;49:129-32*
- Controlled initial hyperkalemic reperfusion after cardiac transplantation: coronary vascular resistance and blood flow (Kirklin, Neves, & others) 1990;49:625-31*
- Experience with univentricular support in mortally ill cardiac transplant candidates (Kormos, Borovetz, & others) 1990;49:261-72*
- Getting the most mileage from donated hearts (Terasaki) 1990;49:177-8,ED
- HLA histocompatibility affects cardiac transplant rejection and may provide one basis for organ allocation (DiSesa, Kuo, & others) 1990;49:220-4*
- Prostaglandin E₂ inhibits in vitro and in vivo lymphocyte responses in allogeneic transplantation (Stone, Rosengard, & others) 1990;49:927-31*
- Rejection and infection after pediatric cardiac transplantation (Braunlin, Canter, & others) 1990;49:385-90*
- Successful coronary artery bypass grafting for high-risk left main coronary artery atherosclerosis after cardiac transplantation (Copeland, Butman, & Sethi) 1990;49:106-10*
- Heart valves**
- Aortic valve disruption after percutaneous aortic balloon valvoplasty (Brdlik, Laub, & others) 1990;49:822-3,CR
- Cell viability in fresh, refrigerated, and cryopreserved human heart valve leaflets (Brockbank) 1990;49:848,CP; Reply (Shumway) 1990;49:848,CP
- Determinants of survival and valve failure after mitral valve replacement (Teoh, Ivanov, & others) 1990;49:643-8*
- Early manifestation of noncalcific aortic stenosis after porcine valve replacement (Amidi, Ferson, & others) 1990;49:471-2,CR
- Effect of storage at 4°C in a nutrient medium on antigenic properties of rat aortic valve allografts (El Khatib, Thompson, & others) 1990;49:792-6*
- Heart valve operations in patients with active infective endocarditis (David, Bos, & others) 1990;49:701-5*
- Ten-year experience with aortic valve replacement in 482 patients 70 years of age or older: operative risk and long-term results (Galloway, Colvin, & others) 1990;49:84-93*
- Use of aortic valve allografts from hepatitis B surface antigen-positive donors (Morris, Strickett, & Barratt-Boyes) 1990;49:802-5*
- Valve repair in acute endocarditis (Dreyfus, Serraf, & others) 1990;49:706-13*
- Heart ventricles**
- Computerized potential distribution mapping: a new intraoperative mapping technique for ventricular tachycardia surgery (Harada, Tweddell, & others) 1990;49:649-55*
- Dynamic aortomyoplasty to assist left ventricular failure (Chachques, Grandjean, & others) 1990;49:225-30*
- Effect of circulatory assist devices on stunned myocardium (Bavaria, Furukawa, & others) 1990;49:123-8*
- Effects of standard mitral valve replacement on left ventricular function (Harpole, Rankin, & others) 1990;49:866-74*
- Evolving patterns in the surgical treatment of malignant ventricular tachyarrhythmias (Elefteriades, Biblo, & others) 1990;49:94-100*
- Fatal left ventricular perforation during mitral balloon valvoplasty (Robertson, de Virgilio, & others) 1990;49:819-21,CR
- Management of extensive right ventricular injury or rupture (Slater, Gott, & others) 1990;49:810-3*

Heart ventricles (cont'd)

- Partial biventricular repair for double-outlet right ventricle with left ventricular hypoplasia (Day, Laks, & others) 1990;49:1003-5,CR
- Repair of the difficult ventriculotomy (Cooley) 1990;49:150-1,HW
- Surgical ablation for idiopathic ventricular tachycardia (Blake-man & Wilber) 1990;49:314-6,CR

Heart-assist devices

- Implantable rate-responsive counterpulsation assist system (Li, Hill, & others) 1990;49:356-62*

Heart-lung transplantation

- Disruption of the aortic anastomosis after heart-lung transplan-tation (Dowling, Baladi, & others) 1990;49:118-22*
- Lung and heart-lung transplantation (LeGal) 1990;49:840-4,CV
- Potential role of dendritic cells in bronchiolitis obliterans in heart-lung transplantation (Yousem, Ray, & others) 1990;49:424-8*
- Surgical management of heart-lung transplantation (Reichart, Vosloo, & Holl) 1990;49:333-40,CV

Hemangioendothelioma

- Mediastinal epithelioid hemangioendothelioma (Toursarkiss-ian, O'Connor, & Dillon) 1990;49:680-5,CV

Hemangioma

- Cardiac hemangioma with papillary endothelial hyperplasia: report of a resected case and review of the literature (Camp, Estruch, & others) 1990;49:305-8,CR

Hemangiopericytoma

- Uncommon intrathoracic extrapulmonary tumor: primary he-mangiopericytoma (Biagi, Gotti, & others) 1990;49:998-9,CR

Hemoconcentration

- Comparative study of Cell Saver and ultrafiltration nontrans-fusion in cardiac surgery (Nakamura, Masuda, & others) 1990;49:973-8*

Hemodynamics

- Ascending aortic dissection in weight lifters with cystic medial degeneration (de Virgilio, Nelson, & others) 1990;49:638-42*
- Cerebrospinal fluid drainage and steroids provide better spinal cord protection during aortic cross-clamping than does either treatment alone (Woloszyn, Marini, & others) 1990;49:78-83*
- Dynamic aortomyoplasty to assist left ventricular failure (Chachques, Grandjean, & others) 1990;49:225-30*
- Experience with univentricular support in mortally ill cardiac transplant candidates (Kormos, Borovetz, & others) 1990;49:261-72*
- Infusion of nifedipine after coronary artery bypass grafting decreases the incidence of early postoperative myocardial ischemia (Seitelberger, Zwolfer, & others) 1990;49:61-8*
- Partial biventricular repair for double-outlet right ventricle with left ventricular hypoplasia (Day, Laks, & others) 1990;49:1003-5,CR
- Shone's anomaly: operative results and late outcome (Bolling, Iannettoni, & others) 1990;49:887-93*

Hemophilia

- Myocardial abscess in a patient with AIDS-related complex: pericardial patch repair (Egan, Maitland, & others) 1990;49:481-2,CR

Hemopump

- First human use of the Hemopump, a catheter-mounted ven-tricular assist device (Frazier, Wampler, & others) 1990;49:299-304*

Hemorrhage

- Hemorrhage control after removal of surgically implanted intraaortic balloon pump (Opie) 1990;49:326-7,HW

- Low activated coagulation time during cardiopulmonary by-pass does not increase postoperative bleeding (Metz & Keats) 1990;49:440-4*

- Management of major tracheal hemorrhage after repair of complex congenital heart defects (Snir, Carotti, & Stark) 1990;49:661-3,CR

- Selective approach to sternal closure after exploration for hemorrhage following coronary artery bypass (Johnson, Gundersen, & others) 1990;49:771-4*

Heparin

- Intraoperative management of patients with heparin-induced thrombocytopenia (Kappa, Fisher, & others) 1990;49:714-23*

- Low activated coagulation time during cardiopulmonary by-pass does not increase postoperative bleeding (Metz & Keats) 1990;49:440-4*

- Use of bovine lung heparin to obviate anaphylactic shock caused by porcine gut heparin (Harada, Tatsuno, & oth-ers) 1990;49:826-7,CR

Hepatitis

- Use of aortic valve allografts from hepatitis B surface antigen-positive donors (Morris, Strickett, & Barratt-Boyes) 1990;49:802-5*

Hernia

- Traumatic intercostal pulmonary hernia (Forty & Wells) 1990;49:670-1,CR

Histocompatibility

- HLA histocompatibility affects cardiac transplant rejection and may provide one basis for organ allocation (DiSesa, Kuo, & others) 1990;49:220-4*

HLA typing

- HLA histocompatibility affects cardiac transplant rejection and may provide one basis for organ allocation (DiSesa, Kuo, & others) 1990;49:220-4*

Honored Guest Address

- Research and the practicing surgeon (Brambridge) 1990;49:694-700*

How to do it

- Circumflex exposure using a cardiac sling (Galvin & Newman) 1990;49:833-4,HW
- Extended use of bilateral internal mammary arteries for coro-nary artery disease (Slater, Gott, & Gray) 1990;49:1014-5,HW
- Forceps extraction of permanent pacing leads (Kratz, Leman, & Gillette) 1990;49:676-7,HW
- Hemorrhage control after removal of surgically implanted intraaortic balloon pump (Opie) 1990;49:326-7,HW
- Inferior epigastric artery as a conduit in myocardial revascular-ization: the alternative free arterial graft (Vincent, van Son, & Skotnicki) 1990;49:323-5,HW
- The Killingbeck pediatric lung retractor (Satur & Walker) 1990;49:491,HW
- Method of endoscopic esophageal intubation using a rigid esophagoscope (Gaer, Blauth, & others) 1990;49:152-3,HW
- Permanent pacemaker implantation: retropectoral position and lead insertion through the subclavian vein (Relland) 1990;49:835-6,HW
- Repair of the calcified ventricular aneurysm (Cooley) 1990;49:489-90,HW
- Repair of the difficult ventriculotomy (Cooley) 1990;49:150-1,HW
- Retrophrenic location of the internal mammary artery graft (Buxton & Knight) 1990;49:1011-2,HW
- Technique for visualization of the functioning mitral valve (Marshall) 1990;49:1013,HW

- Total anomalous pulmonary venous connection: surgical repair with a double-patch technique (Corno, Giamberti, & others) 1990;49:492-4,HW
- Transvenous pacing in infants and children with congenital heart disease (Spotnitz) 1990;49:495-6,HW
- Venous cannulation for high-flow femorofemoral bypass (Smith, Getrajdman, & Hsu) 1990;49:674-5,HW
- Hydrogen**
- Preliminary report of localization of spinal cord blood supply by hydrogen during aortic operations (Svensson, Patel, & others) 1990;49:528-36*
- Hyperkalemia**
- Controlled initial hyperkalemic reperfusion after cardiac transplantation: coronary vascular resistance and blood flow (Kirklin, Neves, & others) 1990;49:625-31*
- Hypersensitivity**
- Sternal wire-induced persistent chest pain: a possible hypersensitivity reaction (Fine & Karwande) 1990;49:135-6,CR
- Use of bovine lung heparin to obviate anaphylactic shock caused by porcine gut heparin (Harada, Tatsuno, & others) 1990;49:826-7,CR
- Hypertension, pulmonary**
- Prostaglandin E₁ and intrapulmonary shunt in cardiac surgical patients with pulmonary hypertension (Heerdt & Weiss) 1990;49:463-5*
- Hypothermia, induced**
- Cryoanalgesia for postthoracotomy pain (Berrisford & Sabanathan) 1990;49:509,CP; Reply (Katz) 1990;49:510,CP
- Iloprost**
- Intraoperative management of patients with heparin-induced thrombocytopenia (Kappa, Fisher, & others) 1990;49:714-23*
- Immunosuppression**
- Bromocriptine as an adjuvant to cyclosporine immunosuppression after heart transplantation (Carrier, Wild, & others) 1990;49:129-32*
- Rejection and infection after pediatric cardiac transplantation (Braunlin, Canter, & others) 1990;49:385-90*
- Surgical management of heart-lung transplantation (Reichart, Vosloo, & Holl) 1990;49:333-40,CV
- Infant**
- Congenital aneurysm of the left atrial wall in infancy (Stone, Brown, & others) 1990;49:476-8,CR
- Correction of total anomalous pulmonary venous connection below the diaphragm (Phillips, Kongtahworn, & others) 1990;49:734-9*
- Incidence and risk of reintervention after coarctation repair (Kron, Flanagan, & others) 1990;49:920-6*
- The Killingbeck pediatric lung retractor (Satur & Walker) 1990;49:489-90,HW
- Modified Blalock-Taussig shunts: results in infants less than 3 months of age (Tamisier, Vouhe, & others) 1990;49:797-801*
- Transvenous pacing in infants and children with congenital heart disease (Spotnitz) 1990;49:495-6,HW
- Unusually early recoarctation after extended end-to-end anastomosis in an neonate (Maehara, de Leval, & Elliott) 1990;49:814-5,CR
- Infection**
- Bacteremia and sternal infection after coronary artery bypass grafting (Kohman, Coleman, & Parker) 1990;49:454-7*
- Candida* mediastinitis after a cardiac operation (Glower, Douglas, & others) 1990;49:157-63,CV
- Descending necrotizing mediastinitis: transcervical drainage is not enough (Wheatley, Stirling, & others) 1990;49:780-4,CR
- Group F streptococcal empyema from aspiration of a grass inflorescence (Baethge, Eggerstedt, & Olash) 1990;49:319-20,CR
- Life-threatening acute posterior mediastinitis due to esophageal perforation (Burnett, Rosemurgy, & Pfeiffer) 1990;49:979-83*
- Operative treatment of *Fusarium* fungal infection of the lung (Lupinetti, Giller, & Trigg) 1990;49:991-2*
- Recent experience with major sternal wound complications (Demmy, Park, & others) 1990;49:458-62*
- Rejection and infection after pediatric cardiac transplantation (Braunlin, Canter, & others) 1990;49:385-90*
- Risks of bilateral internal mammary artery bypass grafting (Kouchoukos, Wareing, & others) 1990;49:210-9*
- Sternal wound complications after isolated coronary artery bypass grafting: early and late mortality, morbidity, and cost of care (Loop, Lytle, & others) 1990;49:179-87*
- Successful surgical management of bronchial dehiscence after single-lung transplantation (Kirk, Conacher, & others) 1990;49:147-9,CR
- Insulin**
- Cardiac function with glucose-insulin-potassium solution (Moulton & Robinson) 1990;49:1025-6,CP; Reply (Taegtmeyer) 1990;49:1026,CP
- Intensive care units**
- Reoperation in the intensive care unit (Kaiser, Naunheim, & others) 1990;49:903-8*
- Intestine, small**
- Experimental reconstruction of the canine trachea with a free revascularized small bowel graft (Letang, Sanchez-Lloret, & others) 1990;49:955-8*
- Intraaortic balloon pump**
- Effect of circulatory assist devices on stunned myocardium (Bavaria, Furukawa, & others) 1990;49:123-8*
- Hemorrhage control after removal of surgically implanted intraaortic balloon pump (Opie) 1990;49:326-7,HW
- Ischemia**
- Infusion of nifedipine after coronary artery bypass grafting decreases the incidence of early postoperative myocardial ischemia (Seitelberger, Zwolfer, & others) 1990;49:61-8*
- Lung and heart-lung transplantation (LeGal) 1990;49:840-4,CV
- Myocardial energetics and the postischemic heart (Burkhoff) 1990;49:525-7,ED
- Relationship between total mechanical energy and oxygen consumption in the stunned myocardium (Furukawa, Bavaria, & others) 1990;49:543-9*
- Superior myocardial preservation with modified UW solution after prolonged ischemia in the rat heart (Yeh, Hanan, & others) 1990;49:932-9*
- True emergency coronary artery bypass surgery (Edwards, Bellamy, & others) 1990;49:603-11*
- Key references**
- Mediastinitis after cardiac operations (Spencer & Grossi) 1990;49:506-7,KR
- Surgical techniques for chest wall reconstruction (Mathisen) 1990;49:164-5,KR
- The trachea (Grillo & Mathisen) 1990;49:845-6,KR
- Kidney**
- Atrial pressure and hormonal and renal responses to acute cardiac tamponade (Hynynen, Salmenpera, & others) 1990;49:632-7*
- Kouwenhoven, William**
- The introduction of closed chest cardiac massage (Bolling) 1990;49:154-6,CL

Larynx

- Cervical exenteration (Grillo & Mathisen) 1990;49:401-9*
- Lipoid pneumonia after laryngectomy mimicking pulmonary malignancy (Venuta, Rendina, & others) 1990;49:1026-7,CP

Lillehei, C. Walton

- C. Walton Lillehei and total correction of tetralogy of Fallot (Gott) 1990;49:328-32,CL

Lipoma

- Obstructing tracheal lipoma: management of a rare tumor (Chen, Bradley, & others) 1990;49:137-9,CR

Lung

- Cystic pulmonary hamartoma (Miura, Hori, & others) 1990;49:828-9,CR
- Dumbbell metastatic cystosarcoma phyllodes of the heart and lung (Fleisher, Tyers, & others) 1990;49:309-11,CR
- Effect of routine fibrin glue use on the duration of air leaks after lobectomy (Fleisher, Evans, & others) 1990;49:133-4*
- Individual ligation technique for lower lobe lobectomy (Faber) 1990;49:1016-8,CL
- The Killingbeck pediatric lung retractor (Satur & Walker) 1990;49:489-90,HW
- Lipoid pneumonia after laryngectomy mimicking pulmonary malignancy (Venuta, Rendina, & others) 1990;49:1026-7,CP
- Management of neonatal critical pulmonic stenosis in the balloon valvotomy era (Caspi, Coles, & others) 1990;49:273-8*
- Operative treatment of *Fusarium* fungal infection of the lung (Lupinetti, Giller, & Trigg) 1990;49:991-2*
- Pleural chondrosarcoma (Bailey & Head) 1990;49:996-7,CR
- Retrospective analysis of the efficacy of open lung biopsy in acquired immunodeficiency syndrome (Bonfils-Roberts, Nickodem, & Nealon) 1990;49:115-7*
- Role of lung decortication in symptomatic empyemas in children (Gustafson, Murray, & others) 1990;49:940-7*
- Total anomalous pulmonary venous connection: surgical repair with a double-patch technique (Corno, Giamberti, & others) 1990;49:492-4,HW
- Traumatic intercostal pulmonary hernia (Forty & Wells) 1990;49:670-1,CR
- Uncommon intrathoracic extrapulmonary tumor: primary hemangiopericytoma (Biagi, Gotti, & others) 1990;49:998-9,CR
- Use of the argon beam electrocoagulator for performing pulmonary wedge resections (Rusch, Schmidt, & others) 1990;49:287-91*
- Vascular properties of canine lungs perfused with Eurocollins solution and prostacyclin (Unruh, Hoppensack, & Oppenheimer) 1990;49:292-8*

Lung neoplasms

- Can computed tomography of the chest stage lung cancer? Yes and no (Lewis, Pearlberg, & others) 1990;49:591-6*
- Cancer recurrence after resection: T1 N0 non-small cell lung cancer (Thomas, Rubinstein, & others) 1990;49:242-7*
- Predicted pulmonary function and survival after pneumonectomy for primary lung carcinoma (Putnam, Lammermeier, & others) 1990;49:909-15*
- Operation for N2 small cell lung carcinoma (Salzer, Muller, & others) 1990;49:759-62*
- Operation for small cell lung cancer—where are we? (Ginsberg) 1990;49:692-3,ED
- Operation for stage IIIa small cell lung cancer? (Bunn) 1990;49:691,ED
- Role of brachytherapy in the management of pulmonary and mediastinal malignancies (Lewis, Ajlouni, & others) 1990;49:728-33*

- Surgery of giant bulla with tube drainage and bronchofiberoptic bronchial occlusion (Oizumi, Hoshi, & others) 1990;49:824-5,CR

- Survival after conservative resection for T1 N0 M0 non-small cell lung cancer (Read, Yoder, & Schaeffer) 1990;49:391-400*

Lung transplantation

- Alternate technique for biopsy in lung transplantation patients (Madoff) 1990;49:342-3,CP
- Direct revascularization of bronchial arteries for lung transplantation: an anatomical study (Schreinemakers, Weder, & others) 1990;49:44-54*
- Donor-specific cytotoxicity testing: an advance in detecting pulmonary allograft rejection (Dal Col, Zeevi, & others) 1990;49:754-8*
- Improved technique for bilateral lung transplantation: rationale and initial clinical experience (Pasque, Cooper, & others) 1990;49:785-91*
- Lung and heart-lung transplantation (LeGal) 1990;49:840-4,CV
- Reduced-size lung transplantation in neonatal swine: technique and short-term physiological response (Crombleholme, Adzick, & others) 1990;49:55-60*
- Successful surgical management of bronchial dehiscence after single-lung transplantation (Kirk, Conacher, & others) 1990;49:147-9,CR

Lymphocytes

- Prostaglandin E₂ inhibits in vitro and in vivo lymphocyte responses in allogeneic transplantation (Stone, Rosengard, & others) 1990;49:927-31*

Mammary artery

- Internal mammary artery grafts (de la Riviere, Defauw, & others) 1990;49:166,CP; Reply (Vander Salm) 1990;49:166,CP
- Risks of bilateral internal mammary artery bypass grafting (Kouchoukos, Wareing, & others) 1990;49:210-9*
- Routine use of the left internal mammary artery graft in the elderly (Gardner, Greene, & others) 1990;49:188-94*
- Sequel of the internal mammary artery as a systemic-to-pulmonary artery shunt (McKay) 1990;49:341,CP
- Seventeen-year experience with bilateral internal mammary artery grafts (Galbut, Traad, & others) 1990;49:195-201*

Mediastinitis

- Candida* mediastinitis after a cardiac operation (Glower, Douglas, & others) 1990;49:157-63,CV
- Coronary artery bypass grafting with unanticipated fibrosing mediastinitis (Holman, Sethi, & Scott) 1990;49:321-2,CR
- Descending necrotizing mediastinitis: transcervical drainage is not enough (Wheatley, Stirling, & others) 1990;49:780-4,CR
- Life-threatening acute posterior mediastinitis due to esophageal perforation (Burnett, Rosemurgy, & Pfeiffer) 1990;49:979-83*
- Mediastinitis after cardiac operations (Spencer & Grossi) 1990;49:506-7,KR

Mediastinum

- Mediastinal epithelioid hemangioendothelioma (Toursarkissian, O'Connor, & Dillon) 1990;49:680-5,CV
- Role of brachytherapy in the management of pulmonary and mediastinal malignancies (Lewis, Ajlouni, & others) 1990;49:728-33*

Melanin

- Melanotic schwannoma of the sympathetic ganglia: pathological and clinical characteristics (Abbott, Hill, & others) 1990;49:1006-8,CR

Microscopy, electron

- Effect of storage at 4°C in a nutrient medium on antigenic properties of rat aortic valve allografts (El Khatib, Thompson, & others) 1990;49:792-6*

Mitral valve

- Case-matched comparison of mitral valve replacement and repair (Craver, Cohen, & Weintraub) 1990;49:964-9*
- Determinants of survival and valve failure after mitral valve replacement (Teoh, Ivanov, & others) 1990;49:643-8*
- Dissection of the left main coronary artery: diagnosis by angioscopy (Richens, Renzulli, & Hilton) 1990;49:469-70,CR
- Effects of standard mitral valve replacement on left ventricular function (Harpole, Rankin, & others) 1990;49:866-74*
- Mitral valve annuloplasty (Carpentier) 1990;49:508,CP; Reply (David) 1990;49:508,CP
- Mitral valve replacement: what should be the standard technique? (Tyers) 1990;49:861-2,ED
- Must the mitral valve always be removed during prosthetic replacement? (Campanella, Hider, & others) 1990;49:167-8,CP
- Operative findings after percutaneous mitral dilation (Acar, Deloche, & others) 1990;49:959-63*
- Technique for visualization of the functioning mitral valve (Marshall) 1990;49:1013,HW

Morbidity

- True emergency coronary artery bypass surgery (Edwards, Bellamy, & others) 1990;49:603-11*

Mortality

- Esophagogastrectomy via left thoracophrenotomy (Page, Khalil, & others) 1990;49:763-6,CR
- Evolving patterns in the surgical treatment of malignant ventricular tachyarrhythmias (Elefteriades, Biblo, & others) 1990;49:94-100*
- Heart valve operations in patients with active infective endocarditis (David, Bos, & others) 1990;49:701-5*
- Hospital death on a cardiac surgical service: negative influence of changing practice patterns (McGrath, Laub, & others) 1990;49:410-2*
- Mitral valve replacement: what should be the standard technique? (Tyers) 1990;49:861-2,ED
- Primary tracheal tumors: treatment and results (Grillo & Mathisen) 1990;49:69-77*
- Recent experience with major sternal wound complications (Demmy, Park, & others) 1990;49:458-62*
- Results of internal thoracic artery grafting over 15 years: single versus double grafts (Fiore, Naunheim, & others) 1990;49:202-9*
- Seventeen-year experience with bilateral internal mammary artery grafts (Galbut, Traad, & others) 1990;49:195-201*
- Shone's anomaly: operative results and late outcome (Bolling, Iannettoni, & others) 1990;49:887-93*
- Sternal wound complications after isolated coronary artery bypass grafting: early and late mortality, morbidity, and cost of care (Loop, Lytle, & others) 1990;49:179-87*
- Ten-year experience with aortic valve replacement in 482 patients 70 years of age or older: operative risk and long-term results (Galloway, Colvin, & others) 1990;49:84-93*
- True emergency coronary artery bypass surgery (Edwards, Bellamy, & others) 1990;49:603-11*

Myasthenia gravis

- Reoperation for thymoma: report of 23 cases (Kirschner) 1990;49:550-5*
- Thymectomy for myasthenia gravis (Jaretzki) 1990;49:688,CP; Reply (Mulder) 1990;49:688,CP

Myocardial infarction

- Improved patient survival after cardiac arrest using a cardiopulmonary support system (Reichman, Joyo, & others) 1990;49:101-5*
- Repair of the difficult ventriculotomy (Cooley) 1990;49:150-1,HW
- Tricuspid regurgitation with postinfarction ventricular septal defect (Feng, Singh, & Moran) 1990;49:659-60,CR

Myocardial revascularization

- Extended use of bilateral internal mammary arteries for coronary artery disease (Slater, Gott, & Gray) 1990;49:1014-5,HW
- Free arterial graft as internal mammary artery-Y complex (Koike, Suma, & others) 1990;49:656-8,CR
- Myocardial revascularization with the lateral costal artery (Hartman, Mawulawde, & others) 1990;49:816-8,CR
- Retrophrenic location of the internal mammary artery graft (Buxton, Knight, & others) 1990;49:1011-2,HW

Myocardium

- Effect of circulatory assist devices on stunned myocardium (Bavaria, Furukawa, & others) 1990;49:123-8*
- Infusion of nifedipine after coronary artery bypass grafting decreases the incidence of early postoperative myocardial ischemia (Seitelberger, Zwolfer, & others) 1990;49:61-8*
- Isolated myocardial perfusion during arch repair (Sano & Mee) 1990;49:970-2*
- Myocardial energetics and the postischemic heart (Burkhoff) 1990;49:525-7,ED
- Reduction of myocardial injury with verapamil before aortic cross-clamping (Weinstein, Rao, & Tyras) 1990;49:419-23*
- Relationship between total mechanical energy and oxygen consumption in the stunned myocardium (Furukawa, Bavaria, & others) 1990;49:543-9*

Myxoma

- Right atrial myxoma originating from the inferior vena cava (Bortolotti, Faggian, & others) 1990;49:1000-2,CR
- Surgical excision of intracardiac myxomas: a 20-year follow-up (Bortolotti, Maraglino, & others) 1990;49:449-53*

Natriuretic peptides, atrial

- Atrial pressure and hormonal and renal responses to acute cardiac tamponade (Hynynen, Salmenpera, & others) 1990;49:632-7*

Necrosis

- Descending necrotizing mediastinitis: transcervical drainage is not enough (Wheatley, Stirling, & others) 1990;49:780-4,CR

Neoplasms

- Can computed tomography of the chest stage lung cancer? Yes and no (Lewis, Pearlberg, & others) 1990;49:591-6*
- Cervical exenteration (Grillo & Mathisen) 1990;49:401-9*
- Chemotherapy and radiation therapy before transhiatal esophagectomy for esophageal carcinoma (Orringer, Forastiere & others) 1990;49:348-55*
- Cystic pulmonary hamartoma (Miura, Hori, & others) 1990;49:828-9,CR
- Dumbbell metastatic cystosarcoma phyllodes of the heart and lung (Fleisher, Tyers, & others) 1990;49:309-11,CR
- Esophagogastrectomy via left thoracophrenotomy (Page, Khalil, & others) 1990;49:763-6,CR
- Intracavitary melanoma of the left atrium (Canver, Lajos, & others) 1990;49:312-3,CR
- Malignant tracheobronchial obstruction (Gaer, Townsend, & Fountain) 1990;49:1027,CP; Reply (McElvein) 1990;49:1027,CP
- Management of sternal tumors (Yellin & Lieberman) 1990;49:852,CP; Reply (Gabbay) 1990;49:852,CP

Neoplasms (cont'd)

- Melanotic schwannoma of the sympathetic ganglia: pathological and clinical characteristics (Abbott, Hill, & others) 1990;49:1006-8,CR
- Obstructing tracheal lipoma: management of a rare tumor (Chen, Braidley, & others) 1990;49:137-9,CR
- Operation for N2 small cell lung carcinoma (Salzer, Muller, & others) 1990;49:759-62*
- Operation for small cell lung cancer—where are we? (Ginsberg) 1990;49:692-3,ED
- Perioperative multimodality management of esophageal cancer: therapeutic or investigational? (Steiger) 1990;49:345-6,ED
- Pleural chondrosarcoma (Bailey & Head) 1990;49:996-7,CR
- Predicted pulmonary function and survival after pneumonectomy for primary lung carcinoma (Putnam, Lammermeier, & others) 1990;49:909-15*
- Primary tracheal tumors: treatment and results (Grillo & Mathisen) 1990;49:69-77*
- Recurrence and malignant transformation of endotracheal chondroma (Salminen, Halttunen, & others) 1990;49:830-2,CR
- Resection of atriocaval adrenal carcinoma (Theman) 1990;49:170,CP
- Role of brachytherapy in the management of pulmonary and mediastinal malignancies (Lewis, Ajlouni, & others) 1990;49:728-33*
- Surgical treatment of cardiac tumors: a 25-year experience (Murphy, Sweeney, & others) 1990;49:612-8*
- Survival after conservative resection for T1 N0 M0 non-small cell lung cancer (Read, Yoder, & Schaeffer) 1990;49:391-400*
- Uncommon intrathoracic extrapulmonary tumor: primary hemangiopericytoma (Biagi, Gotti, & others) 1990;49:998-9,CR

Neutrophils

- Platelet and neutrophil activation in cardiopulmonary bypass (Colman) 1990;49:32-4*

Nicardipine

- Clinical trial of nicardipine cardioplegia in pediatric cardiac surgery (Mori, Miyamoto, & others) 1990;49:413-8*

Nifedipine

- Infusion of nifedipine after coronary artery bypass grafting decreases the incidence of early postoperative myocardial ischemia (Seitelberger, Zwolfer, & others) 1990;49:61-8*

Organ preservation

- Superior myocardial preservation with modified UW solution after prolonged ischemia in the rat heart (Yeh, Hanan, & others) 1990;49:932-9*
- Surgical management of heart-lung transplantation (Reichart, Vosloo, & Holl) 1990;49:333-40,CV

Ossification, pathologic

- Ectopic ossification after median sternotomy (Weiman) 1990;49:510,CP

Oxygen consumption

- Open fixation of flail chest after blunt trauma (Haasler) 1990;49:993-5,CR
- Postischemic $[Ca^{2+}]$ repletion improves cardiac performance without altering oxygen demands (Yokoyama, Julian, & others) 1990;49:894-902*
- Relationship between total mechanical energy and oxygen consumption in the stunned myocardium (Furukawa, Bavaria, & others) 1990;49:543-9*

Oxygenators

- Hypoxemia after intraluminal oxygen line obstruction during cardiopulmonary bypass (Dickinson) 1990;49:512,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP

- Oxygenator failure (Kurusz, Conti, & Arens) 1990;49:511,CP; Reply (Robblee, Crosby, & Keon) 1990;49:512,CP; Reply (Peirce) 1990;49:512-3,CP

Pacemaker, artificial

- Forceps extraction of permanent pacing leads (Kratz, Leman, & Gillette) 1990;49:676-7,HW
- Permanent pacemaker implantation: retropectoral position and lead insertion through the subclavian vein (Relland) 1990;49:835-6,HW
- Transvenous pacing in infants and children with congenital heart disease (Spotnitz) 1990;49:495-6,HW

Pain

- Cryoanalgesia for postthoracotomy pain (Berrisford & Sabanathan) 1990;49:509,CP; Reply (Katz) 1990;49:510,CP
- Sternal wire-induced persistent chest pain: a possible hypersensitivity reaction (Fine & Karwande) 1990;49:135-6,CR

Paralysis

- Diaphragmatic plication for unilateral diaphragmatic paralysis: a 10-year experience (Graham, Kaplan, & others) 1990;49:248-52*

Paraplegia

- Preliminary report of localization of spinal cord blood supply by hydrogen during aortic operations (Svensson, Patel, & others) 1990;49:528-36*

Pediatrics

- Clinical trial of nicardipine cardioplegia in pediatric cardiac surgery (Mori, Miyamoto, & others) 1990;49:413-8*
- Rejection and infection after pediatric cardiac transplantation (Braunlin, Canter, & others) 1990;49:385-90*

Pericarditis

- Futility of pericardiectomy for postirradiation constrictive pericarditis? (Ni, von Segesser, & Turina) 1990;49:445-8*
- Right atrial thrombosis: association with constrictive pericarditis (Katagiri, Tanabe, & others) 1990;49:145-6,CR

Pericardium

- Myocardial abscess in a patient with AIDS-related complex: pericardial patch repair (Egan, Maitland, & others) 1990;49:481-2,CR
- Pericardial flap (Flege) 1990;49:341,CP; Reply (Starr & Moore) 1990;49:342,CP

Plasmapheresis

- Effects of intraoperative plasmapheresis on blood loss in cardiac surgery (Jones, McCoy, & others) 1990;49:585-90*

Platelets

- Platelet and neutrophil activation in cardiopulmonary bypass (Colman) 1990;49:32-4*

Pleurodesis

- Tetracycline pleurodesis for persistent air leak (Chechani) 1990;49:166-7,CP; Reply (Almassi & Haasler) 1990;49:167,CP

Pneumonectomy

- Predicted pulmonary function and survival after pneumonectomy for primary lung carcinoma (Putnam, Lammermeier, & others) 1990;49:909-15*

Pneumonia

- Lipoid pneumonia after laryngectomy mimicking pulmonary malignancy (Venuta, Rendina, & others) 1990;49:1026-7,CP

Polygeline

- Reduction of complement activation during bypass by prime manipulation (Bonser, Dave, & others) 1990;49:279-83*

Potassium

Cardiac function with glucose-insulin-potassium solution (Moulton & Robinson) 1990;49:1025-6,CP; Reply (Taegtmeyer) 1990;49:1026,CP

Clinical trial of nicardipine cardioplegia in pediatric cardiac surgery (Mori, Miyamoto, & others) 1990;49:413-8*

Controlled initial hyperkalemic reperfusion after cardiac transplantation: coronary vascular resistance and blood flow (Kirklin, Neves, & others) 1990;49:625-31*

Pregnancy

Echocardiographic diagnosis and surgical treatment of postpartum pulmonary embolism (Rosenberg, Lefor, & others) 1990;49:667-9,CR

Presidential Address

Philosophy 1 (Lindesmith) 1990;49:7-13,PA

Who, Hobbies, and Heroes (Clark) 1990;49:525-21,PA

Prolactin

Bromocriptine as an adjuvant to cyclosporine immunosuppression after heart transplantation (Carrier, Wild, & others) 1990;49:129-32*

Prophylaxis

Cefamandole versus cefonicid prophylaxis in cardiovascular surgery: a prospective study (Gelfand, Simmons, & others) 1990;49:435-9*

Prostacyclin

Comparison of prostacyclin production of human gastroepiploic artery and saphenous vein (Oku, Yamane, & others) 1990;49:767-70*

Vascular properties of canine lungs perfused with Eurocollins solution and prostacyclin (Unruh, Hoppensack, & Oppenheimer) 1990;49:292-8*

Prostaglandins

Platelet and neutrophil activation in cardiopulmonary bypass (Colman) 1990;49:32-4*

Prostaglandin E₁ and intrapulmonary shunt in cardiac surgical patients with pulmonary hypertension (Heerdt & Weiss) 1990;49:463-5*

Prostaglandin E₂ inhibits in vitro and in vivo lymphocyte responses in allogeneic transplantation (Stone, Rosengard, & others) 1990;49:927-31*

Prosthesis

Case-matched comparison of mitral valve replacement and repair (Craver, Cohen, & Weintraub) 1990;49:964-9*

Determinants of survival and valve failure after mitral valve replacement (Teoh, Ivanov, & others) 1990;49:643-8*

Early manifestation of noncalcific aortic stenosis after porcine valve replacement (Amidi, Ferson, & others) 1990;49:471-2,CR

Must the mitral valve always be removed during prosthetic replacement? (Campanella, Hider, & others) 1990;49:167-8,CP

Porcine versus pericardial bioprostheses (Stassano, Gagliardi, & Spampinato) 1990;49:840,CP

Survival after embolization of a complete prosthetic aortic valve to the aortic arch (Stoneburner, Tucker, & Hurvitz) 1990;49:140-2,CR

Valvular xenograft to bioprosthesis (Hancock) 1990;49:170,CP

Pseudoxanthoma elasticum

Coronary artery bypass in a 15-year-old girl with pseudoxanthoma elasticum (Nishida, Endo, & others) 1990;49:483-5,CR

Pulmonary artery

One-stage repair of absence of the aortopulmonary septum and interrupted aortic arch (Ding, Su, & others) 1990;49:664-6,CR

Palliative reconstruction of right ventricular outflow tract in tetralogy with hypoplastic pulmonary arteries (Okita, Miki, & others) 1990;49:775-9*

Pulmonary circulation

Correction of total anomalous pulmonary venous connection below the diaphragm (Phillips, Kongtahworn, & others) 1990;49:734-9*

Predicted pulmonary function and survival after pneumonectomy for primary lung carcinoma (Putnam, Lammermeier, & others) 1990;49:909-15*

Pulmonary embolism

Chiari network entrapment of thromboemboli: congenital inferior vena cava filter (Goedde, Conetta, & Rumisek) 1990;49:317-8,CR

Echocardiographic diagnosis and surgical treatment of postpartum pulmonary embolism (Rosenberg, Lefor, & others) 1990;49:667-9,CR

Pulmonary gas exchange

Effect of routine fibrin glue use on the duration of air leaks after lobectomy (Fleisher, Evans, & others) 1990;49:133-4*

Tetracycline pleurodesis for persistent air leak (Chechani) 1990;49:166-7,CP; Reply (Almassi & Haasler) 1990;49:167,CP

Pumps

First human use of the Hemopump, a catheter-mounted ventricular assist device (Frazier, Wampler, & others) 1990;49:299-304*

Radioisotopes

Role of brachytherapy in the management of pulmonary and mediastinal malignancies (Lewis, Ajlouni, & others) 1990;49:728-33*

Radiotherapy

Chemotherapy and radiation therapy before transhiatal esophagectomy for esophageal carcinoma (Orringer, Forastiere, & others) 1990;49:348-55*

Futility of pericardiectomy for postirradiation constrictive pericarditis? (Ni, von Segesser, & Turina) 1990;49:445-8*

Mediastinal epithelioid hemangioendothelioma (Toursarkissian, O'Connor, & Dillon) 1990;49:680-5,CV

Primary tracheal tumors: treatment and results (Grillo & Mathisen) 1990;49:69-77*

Rats

Effect of storage at 4°C in a nutrient medium on antigenic properties of rat aortic valve allografts (El Khatib, Thompson, & others) 1990;49:792-6*

Prostaglandin E₂ inhibits in vitro and in vivo lymphocyte responses in allogeneic transplantation (Stone, Rosengard, & others) 1990;49:927-31*

Reflux

Effect of antireflux operation on Barrett's mucosa (Williamson, Ellis, & others) 1990;49:537-42*

Rejection

Potential role of dendritic cells in bronchiolitis obliterans in heart-lung transplantation (Yousem, Ray, & others) 1990;49:424-8*

Rejection and infection after pediatric cardiac transplantation (Braunlin, Canter, & others) 1990;49:385-90*

Reoperation

Incidence and risk of reintervention after coarctation repair (Kron, Flanagan, & others) 1990;49:920-6*

Late left atrioventricular valve insufficiency after repair of partial atrioventricular septal defects: anatomical and surgical determinants (Abbruzzese, Napoleone, & others) 1990;49:111-4*

Reoperation in the intensive care unit (Kaiser, Naunheim, & others) 1990;49:903-8*

Reoperation (cont'd)

- Reoperation for thymoma: report of 23 cases (Kirschner) 1990;49:550-5*
- Seventeen-year experience with bilateral internal mammary artery grafts (Galbut, Traad, & others) 1990;49:195-201*
- Successful surgical management of bronchial dehiscence after single-lung transplantation (Kirk, Conacher, & others) 1990;49:147-9,CR
- Ten-year experience with porcine bioprosthetic valve: interrelationship of valve survival and patient survival in 1,050 valve replacements (Jones, Weintraub & others) 1990;49:370-84*
- Ten-year experience with aortic valve replacement in 482 patients 70 years of age or older: operative risk and long-term results (Galloway, Colvin, & others) 1990;49:84-93
- Thoracic aortic aneurysms after acute type A aortic dissection: necessity for follow-up (Heinemann, Laas, & others) 1990;49:580-4*

Report

- Notes from the Thoracic Surgery Directors Association (Murray) 1990;49:855,RE
- The use of extracorporeal circulation (ECC) for circulatory support during PTCA 1990;49:514,RE

Research

- Research and the practicing surgeon (Brimbridge) 1990;49:694-700*

Respiration

- Diaphragmatic plication for unilateral diaphragmatic paralysis: a 10-year experience (Graham, Kaplan, & others) 1990;49:248-52*
- Obstructing tracheal lipoma: management of a rare tumor (Chen, Braidley, & others) 1990;49:137-9,CR
- Retrospective analysis of the efficacy of open lung biopsy in acquired immunodeficiency syndrome (Bonfils-Roberts, Nickodem, & Nealon) 1990;49:115-7*
- Use of Gianturco self-expandable stents in the tracheobronchial tree (Varela, Maynar, & others) 1990;49:806-9*

Resuscitation

- The introduction of closed chest cardiac massage (Bolling) 1990;49:154-6,CL

Revascularization

- Comparison of prostacyclin production of human gastroepiploic artery and saphenous vein (Oku, Yamane, & others) 1990;49:767-70*
- Direct revascularization of bronchial arteries for lung transplantation: an anatomical study (Schreinemakers, Weder, & others) 1990;49:44-54*
- Experimental reconstruction of the canine trachea with a free revascularized small bowel graft (Letang, Sanchez-Lloret, & others) 1990;49:955-8*
- Extended use of bilateral internal mammary arteries for coronary artery disease (Slater, Gott, & Gray) 1990;49:1014-5,HW
- Inferior epigastric artery as a conduit in myocardial revascularization: the alternative free arterial graft (Vincent, van Son, & Skotnicki) 1990;49:323-5,HW
- Myocardial revascularization with the lateral costal artery (Hartman, Mawulawde, & others) 1990;49:816-8,CR
- Retrophrenic location of the internal mammary artery graft (Buxton, Knight, & others) 1990;49:1011-2,HW

Risk factors

- Hospital death on a cardiac surgical service: negative influence of changing practice patterns (McGrath, Laub, & others) 1990;49:410-2*
- Late left atrioventricular valve insufficiency after repair of partial atrioventricular septal defects: anatomical and surgical determinants (Abbruzzese, Napoleone, & others) 1990;49:111-4*

- Recent experience with major sternal wound complications (Demmy, Park, & others) 1990;49:458-62*
- Risks of bilateral internal mammary artery bypass grafting (Kouchoukos, Wareing, & others) 1990;49:210-9*
- Successful coronary artery bypass grafting for high-risk left main coronary artery atherosclerosis after cardiac transplantation (Copeland, Butman, & Sethi) 1990;49:106-10*
- True emergency coronary artery bypass surgery (Edwards, Bellamy, & others) 1990;49:603-11*

Saphenous vein

- Comparison of prostacyclin production of human gastroepiploic artery and saphenous vein (Oku, Yamane, & others) 1990;49:767-70*

Sarcoma

- Survival after surgical resection for high-grade chest wall sarcomas (Perry, Venzon, & others) 1990;49:363-9*

Schwannoma

- Melanotic schwannoma of the sympathetic ganglia: pathological and clinical characteristics (Abbott, Hill, & others) 1990;49:1006-8,CR

Secretions

- Clinical experience with minitracheostomy (Wain, Wilson, & Mathisen) 1990;49:881-6*

Sheep

- Effect of circulatory assist devices on stunned myocardium (Bavaria, Furukawa, & others) 1990;49:123-8*
- Relationship between total mechanical energy and oxygen consumption in the stunned myocardium (Furukawa, Bavaria, & others) 1990;49:543-9*

Shone's anomaly

- Shone's anomaly: operative results and late outcome (Bolling, Iannettoni, & others) 1990;49:887-93*

Shunts

- Prostaglandin E₁ and intrapulmonary shunt in cardiac surgical patients with pulmonary hypertension (Heerdt & Weiss) 1990;49:463-5*
- Sequel of the internal mammary artery as a systemic-to-pulmonary artery shunt (McKay) 1990;49:341,CP

The Society of Thoracic Surgeons

- Twenty-fifth Anniversary Meeting 1990;49:171-6
- Philosophy 1 (Lindesmith) 1990;49:7-13,PA
- Platelet and neutrophil activation in cardiopulmonary bypass (Colman) 1990;49:32-4*
- Technical and scientific advances in cardiac surgery over the past 25 years (Kirklin) 1990;49:26-31*
- Technical and scientific advances in general thoracic surgery (Skinner) 1990;49:14-25*
- Welcoming remarks (Hudson) 1990;49:4*
- Welcoming remarks (Ross) 1990;49:5*
- Welcoming remarks (Schmoke) 1990;49:6*

Spinal cord

- Assessment of spinal cord blood supply during aortic operations (Blaisdell) 1990;49:522,ED
- Cerebrospinal fluid drainage and steroids provide better spinal cord protection during aortic cross-clamping than does either treatment alone (Woloszyn, Marini, & others) 1990;49:78-83*
- Preliminary report of localization of spinal cord blood supply by hydrogen during aortic operations (Svensson, Patel, & others) 1990;49:528-36*

Sports

- Ascending aortic dissection in weight lifters with cystic medial degeneration (de Virgilio, Nelson, & others) 1990;49:638-42*

Statistics

- Ten-year experience with aortic valve replacement in 482 patients 70 years of age or older: operative risk and

long-term results (Galloway, Colvin, & others) 1990;49:84-93

Stents

- Tracheal reconstruction by esophageal interposition: an experimental study (Kato, Onuki, & others) 1990;49:951-4*
- Use of Gianturco self-expandable stents in the tracheobronchial tree (Varela, Maynar, & others) 1990;49:806-9*

Sternum

- Bacteremia and sternal infection after coronary artery bypass grafting (Kohman, Coleman, & Parker) 1990;49:454-7*
- Ectopic ossification after median sternotomy (Weiman) 1990;49:510,CP
- Management of sternal tumors (Yellin & Lieberman) 1990;49:852,CP; Reply (Gabbay) 1990;49:852,CP
- Recent experience with major sternal wound complications (Demmy, Park, & others) 1990;49:458-62*
- Repair of sternal dehiscence using a Harrington compression system (Cochran & Rohrich) 1990;49:853,CP; Reply (Johnson) 1990;49:854,CP
- Selective approach to sternal closure after exploration for hemorrhage following coronary artery bypass (Johnson, Gundersen, & others) 1990;49:771-4*
- Sternal wire-induced persistent chest pain: a possible hypersensitivity reaction (Fine & Karwande) 1990;49:135-6,CR
- Sternal wound complications after isolated coronary artery bypass grafting: early and late mortality, morbidity, and cost of care (Loop, Lytle, & others) 1990;49:179-87*

Steroids

- Cerebrospinal fluid drainage and steroids provide better spinal cord protection during aortic cross-clamping than does either treatment alone (Woloszyn, Marini, & others) 1990;49:78-83*

Streptococcal infections

- Group F streptococcal empyema from aspiration of a grass inflorescence (Baethge, Eggerstedt, & Olash) 1990;49:319-20,CR

Subclavian vein

- Permanent pacemaker implantation: retropectoral position and lead insertion through the subclavian vein (Relland) 1990;49:835-6,HW

Surgery

- Cefamandole versus cefonicid prophylaxis in cardiovascular surgery: a prospective study (Gelfand, Simmons, & others) 1990;49:435-9*
- Changing cardiothoracic practice patterns (Rainer) 1990;49:347,ED
- Direct revascularization of bronchial arteries for lung transplantation: an anatomical study (Schreinemakers, Weder, & others) 1990;49:44-54*
- Disruption of the aortic anastomosis after heart-lung transplantation (Dowling, Baladi, & others) 1990;49:118-22*
- Esophagectomy for esophageal disruption (Orringer & Stirling) 1990;49:35-43*
- Primary tracheal tumors: treatment and results (Grillo & Mathisen) 1990;49:69-77*
- Reduced-size lung transplantation in neonatal swine: technique and short-term physiological response (Crombleholme, Adzick, & others) 1990;49:55-60*
- Surgical techniques for chest wall reconstruction (Mathisen) 1990;49:164-5,CR
- Surgical treatment of automatic atrial tachycardias (Hendry, Packer, & others) 1990;49:253-60*
- Survival after surgical resection for high-grade chest wall sarcomas (Perry, Venzon, & others) 1990;49:363-9*
- Total anomalous pulmonary venous connection: surgical repair with a double-patch technique (Corno, Giamberti, & others) 1990;49:492-4,HW

Surgery department, hospital

- Hospital death on a cardiac surgical service: negative influence of changing practice patterns (McGrath, Laub, & others) 1990;49:410-2*

Surgical instruments

- Can AIDS be prevented after injury with contaminated instruments? (Robicsek, Duncan, & others) 1990;49:984-6*
- The Killingbeck pediatric lung retractor (Satur & Walker) 1990;49:489-90,HW

Surgical wound dehiscence

- Recent experience with major sternal wound complications (Demmy, Park, & others) 1990;49:458-62*
- Repair of sternal dehiscence using a Harrington compression system (Cochran & Rohrich) 1990;49:853,CP; Reply (Johnson) 1990;49:854,CP
- Successful surgical management of bronchial dehiscence after single-lung transplantation (Kirk, Conacher, & others) 1990;49:147-9,CR

Survival

- Cancer recurrence after resection: T1 N0 non-small cell lung cancer (Thomas, Rubinstein, & others) 1990;49:242-7*
- Case-matched comparison of mitral valve replacement and repair (Craver, Cohen, & Weintraub) 1990;49:964-9*
- Chemotherapy and radiation therapy before transhiatal esophagectomy for esophageal carcinoma (Orringer, Forastiere, & others) 1990;49:348-55*
- Determinants of survival and valve failure after mitral valve replacement (Teoh, Ivanov, & others) 1990;49:643-8*
- Esophagogastrectomy via left thoracophrenotomy (Page, Khalil, & others) 1990;49:763-6,CR
- Heart valve operations in patients with active infective endocarditis (David, Bos, & others) 1990;49:701-5*
- Life-threatening acute posterior mediastinitis due to esophageal perforation (Burnett, Rosemurgy, & Pfeiffer) 1990;49:979-83*
- Long-term results of direct aortoplasty for repair of aortic coarctation in adults (Heikkinen & Ala-Kulju) 1990;49:948-50*
- Lung and heart-lung transplantation (LeGal) 1990;49:840-4,CV
- Operative treatment of *Fusarium* fungal infection of the lung (Lupinetti, Giller, & Trigg) 1990;49:991-2,CR
- Predicted pulmonary function and survival after pneumonectomy for primary lung carcinoma (Putnam, Lammermeier, & others) 1990;49:909-15*
- Surgery for high cervical esophageal carcinoma: experience with 11 patients (Mansour, Picone, & Coleman) 1990;49:597-602*
- Surgical excision of intracardiac myxomas: a 20-year follow-up (Bortolotti, Maraglino, & others) 1990;49:449-53*
- Surgical treatment of cardiac tumors: a 25-year experience (Murphy, Sweeney, & others) 1990;49:612-8*
- Survival after conservative resection for T1 N0 M0 non-small cell lung cancer (Read, Yoder, & Schaeffer) 1990;49:391-400*
- Survival after surgical resection for high-grade chest wall sarcomas (Perry, Venzon, & others) 1990;49:363-9*
- Ten-year experience with porcine bioprosthetic valve: interrelationship of valve survival and patient survival in 1,050 valve replacements (Jones, Weintraub & others) 1990;49:370-84*
- Thoracic aortic aneurysms after acute type A aortic dissection: necessity for follow-up (Heinemann, Laas, & others) 1990;49:580-4*

Swine

- Atrial pressure and hormonal and renal responses to acute cardiac tamponade (Hynynen, Salmenpera, & others) 1990;49:632-7*

Swine (cont'd)

- Preliminary report of localization of spinal cord blood supply by hydrogen during aortic operations (Svensson, Patel, & others) 1990;49:528-36*
- Reduced-size lung transplantation in neonatal swine: technique and short-term physiological response (Crombleholme, Adzick, & others) 1990;49:55-60*

Tachycardia

- Computerized potential distribution mapping: a new intraoperative mapping technique for ventricular tachycardia surgery (Harada, Tweddell, & others) 1990;49:649-55*
- Skeletonization of the atrioventricular node for AV node reentrant tachycardia: experience with 32 patients (Guiraudon, Klein, & others) 1990;49:565-73*
- Surgical ablation for idiopathic ventricular tachycardia (Blake-man & Wilber) 1990;49:314-6,CR
- Surgical cure of automatic atrial tachycardia by partial left atrial isolation (Chang, Chang, & others) 1990;49:466-8,CR
- Surgical treatment of automatic atrial tachycardias (Hendry, Packer, & others) 1990;49:253-60*

Tetracycline

- Tetracycline pleurodesis for persistent air leak (Chechani) 1990;49:166-7,CP; Reply (Almassi & Haasler) 1990;49:167,CP

Tetralogy of Fallot

- C. Walton Lillehei and total correction of tetralogy of Fallot (Gott) 1990;49:328-32,CL
- Palliative reconstruction of right ventricular outflow tract in tetralogy with hypoplastic pulmonary arteries (Okita, Miki, & others) 1990;49:775-9*
- Use of bovine lung heparin to obviate anaphylactic shock caused by porcine gut heparin (Harada, Tatsuno, & others) 1990;49:826-7,CR

Thoracic arteries

- Effect of omental, intercostal, and internal mammary artery pedicle wraps on bronchial healing (Turrentine, Kesler, & others) 1990;49:574-9*
- Results of internal thoracic artery grafting over 15 years: single versus double grafts (Fiore, Naunheim, & others) 1990;49:202-9*

Thoracic surgery

- Assessment of spinal cord blood supply during aortic operations (Blaisdell) 1990;49:522,ED
- Changing cardiothoracic practice patterns (Rainer) 1990;49:347,ED
- Correction of total anomalous pulmonary venous connection below the diaphragm (Phillips, Kongtahworn, & others) 1990;49:734-9*
- Direct access to the paravertebral space at thoracotomy (Berrisford & Sabanathan) 1990;49:855,CP
- Ectopic ossification after median sternotomy (Weiman) 1990;49:510,CP
- Esophagogastrectomy via left thoracophrenotomy (Page, Khalil, & others) 1990;49:763-6,CR
- Individual ligation technique for lower lobe lobectomy (Faber) 1990;49:1016-8,CL
- Long-term results of direct aortoplasty for repair of aortic coarctation in adults (Heikkinen & Ala-Kulju) 1990;49:948-50*
- Mediastinal epithelioid hemangioendothelioma (Toursarkissian, O'Connor, & Dillon) 1990;49:680-5,CV
- Operation for N2 small cell lung carcinoma (Salzer, Muller, & others) 1990;49:759-62*
- Permanent pacemaker implantation: retropectoral position and lead insertion through the subclavian vein (Relland) 1990;49:835-6,HW
- Philosophy 1 (Lindesmith) 1990;49:7-13,PA

- Pleural chondrosarcoma (Bailey & Head) 1990;49:996-7,CR
- Preliminary report of localization of spinal cord blood supply by hydrogen during aortic operations (Svensson, Patel, & others) 1990;49:528-36*
- Research and the practicing surgeon (Brambridge) 1990;49:694-700*
- Selective approach to sternal closure after exploration for hemorrhage following coronary artery bypass (Johnson, Gundersen, & others) 1990;49:771-4*
- Shone's anomaly: operative results and late outcome (Bolling, Iannettoni, & others) 1990;49:887-93*
- Surgery for high cervical esophageal carcinoma: experience with 11 patients (Mansour, Picone, & Coleman) 1990;49:597-602*
- Technical and scientific advances in cardiac surgery over the past 25 years (Kirklin) 1990;49:26-31*
- Technical and scientific advances in general thoracic surgery (Skinner) 1990;49:14-25*
- Total anomalous pulmonary venous connection: surgical repair with a double-patch technique (Corno, Giamberti, & others) 1990;49:492-4,HW
- The use of extracorporeal circulation (ECC) for circulatory support during PCTA, 1990;49:514
- Who, hobbies, and heroes (Clark) 1990;49:515-21,PA

Thoracoscopy

- Thoracoscopic ablation of blebs (Chiu) 1990;49:851,CP; Reply (Wakabayashi) 1990;49:851,CP

Thoracotomy

- Direct access to the paravertebral space at thoracotomy (Berrisford & Sabanathan) 1990;49:855,CP

Thorax

- Can computed tomography of the chest stage lung cancer? Yes and no (Lewis, Pearlberg, & others) 1990;49:591-6*
- Open fixation of flail chest after blunt trauma (Haasler) 1990;49:993-5,CR
- Surgical techniques for chest wall reconstruction (Mathisen) 1990;49:164-5,CR
- Survival after surgical resection for high-grade chest wall sarcomas (Perry, Venzon, & others) 1990;49:363-9*

Thrombocytopenia

- Intraoperative management of patients with heparin-induced thrombocytopenia (Kappa, Fisher, & others) 1990;49:714-23*

Thromboembolism

- Chiari network entrapment of thromboemboli: congenital inferior vena cava filter (Goedde, Conetta, & Rumisek) 1990;49:317-8,CR

Thrombosis

- Right atrial thrombosis: association with constrictive pericarditis (Katigiri, Tanabe, & others) 1990;49:145-6,CR

Thromboxane

- Endothelial cell thromboxane production and its inhibition by a calcium channel blocker (Ramadan, Upchurch, & others) 1990;49:916-9*

Thymectomy

- Thymectomy for myasthenia gravis (Jaretzki) 1990;49:688,CP; Reply (Mulder) 1990;49:688,CP

Thymoma

- Reoperation for thymoma; report of 23 cases (Kirschner) 1990;49:550-5*

Tissue culture

- Endothelial cell thromboxane production and its inhibition by a calcium channel blocker (Ramadan, Upchurch, & others) 1990;49:916-9*

Tomograph, x-ray computed

- Can computed tomography of the chest stage lung cancer—Yes and no (Lewis, Pearlberg, & others) 1990;49:591-6*

- Descending necrotizing mediastinitis: transcervical drainage is not enough (Wheatley, Stirling, & others) 1990;49:780-4*
 Role of lung decortication in symptomatic empyemas in children (Gustafson, Murray, & others) 1990;49:940-7*

Trachea

- Cervical exenteration (Grillo & Mathisen) 1990;49:401-9*
 Experimental reconstruction of the canine trachea with a free revascularized small bowel graft (Letang, Sanchez-Lloret, & others) 1990;49:955-8*
 Malignant tracheobronchial obstruction (Gaer, Townsend, & Fountain) 1990;49:1027,CP; Reply (McElvein) 1990;49:1027,CP
 Management of major tracheal hemorrhage after repair of complex congenital heart defects (Snir, Carotti, & Stark) 1990;49:661-3,CR
 Obstructing tracheal lipoma: management of a rare tumor (Chen, Braidley, & others) 1990;49:137-9,CR
 Primary tracheal tumors: treatment and results (Grillo & Mathisen) 1990;49:69-77*
 Recurrence and malignant transformation of endotracheal chondroma (Salminen, Halttunen, & others) 1990;49:830-2,CR
 The trachea (Grillo & Mathisen) 1990;49:845-6,KR
 Tracheal reconstruction by esophageal interposition: an experimental study (Kato, Onuki, & others) 1990;49:951-4*
 Tracheal replacement (Grillo) 1990;49:864-5,ED
 Use of Gianturco self-expandable stents in the tracheobronchial tree (Varela, Maynar, & others) 1990;49:806-9*

Tracheostomy

- Clinical experience with minitracheostomy (Wain, Wilson, & Mathisen) 1990;49:881-6*

Transplantation, homologous

- Effect of storage at 4°C in a nutrient medium on antigenic properties of rat aortic valve allografts (El Khatib, Thompson, & others) 1990;49:792-6*
 Use of aortic valve allografts from hepatitis B surface antigen-positive donors (Morris, Strickett, & Barratt-Boyes) 1990;49:802-5*

Trauma. See Wounds and injuries.

Tricuspid valve

- Tricuspid regurgitation with postinfarction ventricular septal defect (Feng, Singh, & Moran) 1990;49:659-60,CR

Ultrafiltration

- Comparative study of Cell Saver and ultrafiltration nontransfusion in cardiac surgery (Nakamura, Masuda, & others) 1990;49:973-8*

Ultrasonics

- Aortic valve debridement by ultrasonic surgical aspirator: a word of caution (Craver) 1990;49:746-53*

Valves

- Aortic valve decalcification: history repeated with a new result (Cosgrove, Ratliff, & others) 1990;49:689-90,ED
 Aortic valve operation after percutaneous aortic balloon valvuloplasty (Johnson, Dhillon, & others) 1990;49:740-5*
 Heart valve operations in patients with active infective endocarditis (David, Bos, & others) 1990;49:701-5*
 Ten-year experience with porcine bioprosthetic valve: interrelationship of valve survival and patient survival in 1,050 valve replacements (Jones, Weintraub & others) 1990;49:370-84*
 Valve repair in acute endocarditis (Dreyfus, Serraf, & others) 1990;49:706-13*

Vascular resistance

- Ascending aortic dissection in weight lifters with cystic medial degeneration (de Virgilio, Nelson, & others) 1990;49:638-42*
 Controlled initial hyperkalemic reperfusion after cardiac transplantation: coronary vascular resistance and blood flow (Kirklin, Neves, & others) 1990;49:625-31*

Vena cava, inferior

- Chiari network entrapment of thromboemboli: congenital inferior vena cava filter (Goedde, Conetta, & Rumisek) 1990;49:317-8,CR
 Right atrial myxoma originating from the inferior vena cava (Bortolotti, Faggian, & others) 1990;49:1000-2,CR

Verapamil

- Reduction of myocardial injury with verapamil before aortic cross-clamping (Weinstein, Rao, & Tyras) 1990;49:419-23*

Viral diseases

- Can AIDS be prevented after injury with contaminated instruments? (Robicsek, Duncan, & others) 1990;49:984-6*

Weight lifting

- Ascending aortic dissection in weight lifters with cystic medial degeneration (de Virgilio, Nelson, & others) 1990;49:638-42*

Wolff-Parkinson-White syndrome

- Computerized activation sequence mapping of the human atrial septum (Chang, Schuessler, & others) 1990;49:231-41*

Wound healing

- Risks of bilateral internal mammary artery bypass grafting (Kouchoukos, Wareing, & others) 1990;49:210-9*
 Sternal wound complications after isolated coronary artery bypass grafting: early and late mortality, morbidity, and cost of care (Loop, Lytle, & others) 1990;49:179-87*

Wound infections

- Bacteremia and sternal infection after coronary artery bypass grafting (Kohman, Coleman, & Parker) 1990;49:454-7*
 Recent experience with major sternal wound complications (Demmy, Park, & others) 1990;49:458-62*
 Selective approach to sternal closure after exploration for hemorrhage following coronary artery bypass (Johnson, Gundersen, & others) 1990;49:771-4*

Wounds and injuries

- Aortic valvoplasty for traumatic aortic insufficiency: a 2-year follow-up (Ovil, Wahi, & others) 1990;49:143-4,CR
 Can AIDS be prevented after injury with contaminated instruments? (Robicsek, Duncan, & others) 1990;49:984-6*
 Fatal left ventricular perforation during mitral balloon valvoplasty (Robertson, de Virgilio, & others) 1990;49:819-21,CR
 Life-threatening acute posterior mediastinitis due to esophageal perforation (Burnett, Rosemurgy, & Pfeiffer) 1990;49:978-83*
 Management of extensive right ventricular injury or rupture (Slater, Gott, & others) 1990;49:810-3*
 Open fixation of flail chest after blunt trauma (Haasler) 1990;49:993-5,CR
 Repair of sternal dehiscence using a Harrington compression system (Cochran & Rohrich) 1990;49:853,CP; Reply (Johnson) 1990;49:854,CP
 Traumatic intercostal pulmonary hernia (Forty & Wells) 1990;49:670-1,CR
 Traumatic rupture of the thoracic aorta (Verdant) 1990;49:686,CP; Reply (Hess) 1990;49:686,CP; Reply (Mattox) 1990;49:687,CP

Xenografts

- Valvular xenograft to bioprosthesis (Hancock) 1990;49:170,CP

